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DEPARTMENT OF WATER RESOURCES
—
THIRTIETH BIENNIAL REPORT
OF THE
STATE ENGINEER
TO THE
GOVERNOR OF COLORADO
FOR THE YEARS
1939-1940

DENVER.

ENGINEERING DEPT.

STATE OF COLORADO

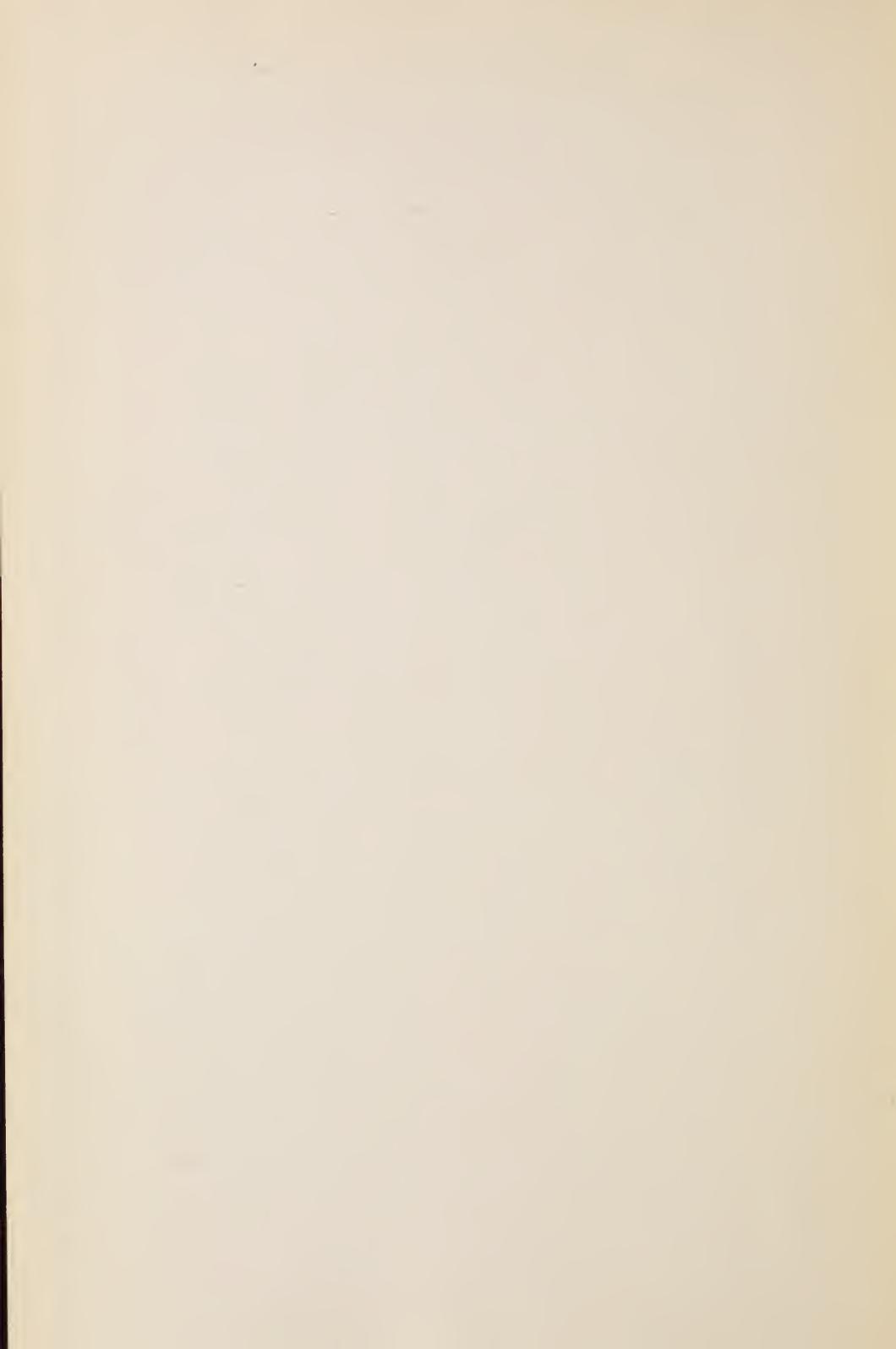
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DEPARTMENT
OF
WATER RESOURCES

Thirtieth Biennial
Report

OF THE

STATE ENGINEER

TO THE

Governor of Colorado



For the Years 1939-1940

M. C. HINDERLIDER
State Engineer

BRADFORD-ROBINSON PRINTING CO.
DENVER, COLORADO
1941

LETTER OF TRANSMITTAL

Sir:

In compliance with provisions of law, I have the honor to transmit herewith the Thirtieth Biennial Report of the activities of the Department of Water Resources for the years 1939 and 1940.

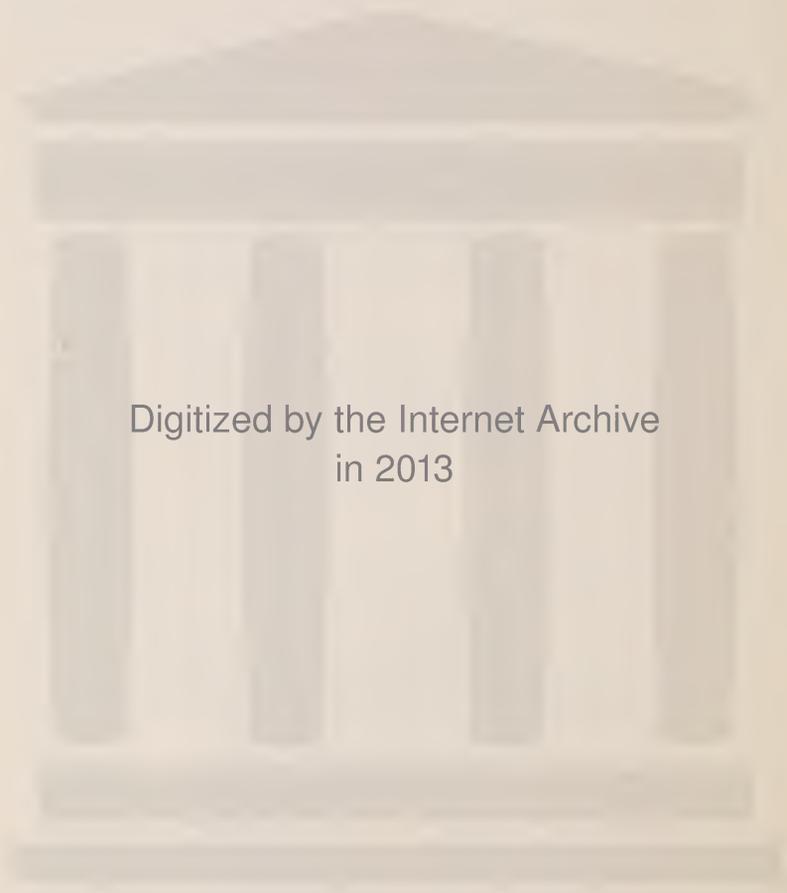
Very respectfully,

M. C. HINDERLIDER,
State Engineer.

To His Excellency,
RALPH L. CARR,
Governor



SIGNING OF REPUBLICAN RIVER COMPACT
DENVER, COLO., MARCH 19, 1941



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LIST OF OFFICERS AND EMPLOYEES

State Engineering Department

| | |
|---------------------------|----------------------------|
| M. C. Hinderlider..... | State Engineer |
| C. C. Hezmalhaleh..... | Deputy State Engineer |
| L. T. Burgess..... | Chief Hydrographer |
| W. T. Blight..... | Chief Clerk and Draftsman |
| Edith Plunkett..... | Secretary and Stenographer |
| Jessie James..... | Stenographer |
| C. E. Schnurr..... | Hydrographer, Div. 1 |
| Wm. E. Wagner..... | Hydrographer, Div. 1 |
| F. C. Snyder..... | Hydrographer, Div. 2 |
| Robt. A. Bulkley..... | Hydrographer, Div. 2 |
| Jas. R. Williams, Jr..... | Hydrographer, Div. 3 |
| D. S. Jones, Jr..... | Special Deputy, Div. 3 |

IRRIGATION DIVISION ENGINEERS

| | |
|---|-------------------|
| Div. No. 1—J. E. Whitten, Special Deputy..... | Denver |
| Div. No. 2—C. W. Beach..... | Pueblo |
| Div. No. 3—W. D. Carroll..... | Alamosa |
| Div. No. 4—F. S. Hotchkiss..... | Montrose |
| Div. No. 5—L. C. Finley..... | Glenwood Springs |
| Div. No. 6—B. T. Chase..... | Steamboat Springs |
| Div. No. 7—J. R. Williams..... | Durango |

WATER COMMISSIONERS

| Div. No. | Dist. No. | Name | Location |
|-------------|--------------|---------------------------------|------------------|
| 1 | 1 | J. L. Samples | Ft. Morgan |
| 1 | 2 | S. V. Wallace | Ft. Lupton |
| 1 | 3 | W. J. McAnelly | Ft. Collins |
| 1 | 4 | Geo. S. Kral | Loveland |
| 1 | 5 | C. J. Maier | Longmont |
| 1 | 6 | T. L. Platt, 2236 Mapleton Ave. | Boulder |
| 1 | 7 | A. E. Jones | Golden |
| 1 | 8 | C. M. Hall, 3490 So. Broadway | Englewood |
| 1 | 9 | J. W. Van Gorden | Morrison |
| 2 | 10 | M. M. Pribble, 1020 Wahsatch | Colorado Springs |
| 2 | 11 | J. A. Burnett | Poncha Springs |
| 2 | 12 | D. S. Jones | Canon City |
| 2 | 13 | Frank Kelling | Westcliffe |
| 2 | 14 | Joseph Russ | Pueblo |
| 2 | 15 | John Simonson | Beulah |
| 2 | 16 | H. W. Craig | La Veta |
| 2 | 17 | W. W. Wheeler | Rocky Ford |
| 2 | 18 | Juan A. Mestas | Aguilar |
| 2 | 19 | H. B. Bostick | Trinidad |
| 3 | 20 | Thos. Carr | Del Norte |
| 3 | 21 | T. M. Orman | La Jara |
| 3 | 22 | L. W. Sowards | Manassa |
| 1-2 | 23 | J. Desserich | Hartsel |
| 3 | 24 | Fares Gold | San Luis |
| 3 | 25 | John L. Charles | Crestone |
| 3 | 26 | Ira Colvin | Saguache |
| 3 | 27 | Jas. Medina | La Garita |
| 4 | 28 | J. Roy Hicks | Sargents |
| 7 | 29 | Joe T. Chambers, Com. at Large | Pagosa Springs |
| 7 | 30 | Geo. H. Tyner | Falfa |
| 7 | 31 | Albert Larsen | Tiffany |
| 7 | 32 | No Commissioner | |
| 7 | 33 | Edward C. Kennedy | Breen |
| 7 | 34 | Hugo Weston | Cortez |
| 3 | 35 | Geo. Opincar | Blanca |
| 5 | 36 | No Commissioner | |
| 5 | 37 | B. F. Long | Eagle |
| 5 | 38 | P. K. Barthel | Carbondale |

| | | | |
|---|----|--|-------------------|
| 5 | 39 | Chas. E. Rauman..... | Rifle |
| 4 | 40 | R. E. Robinson..... | Cedaredge |
| 4 | 41 | Dexter B. Walker..... | Montrose |
| 4 | 42 | Geo. M. Saunders..... | Mesa |
| 6 | 43 | Thos. Watkins..... | Meeker |
| 6 | 44 | Edw. A. Harrison..... | Craig |
| 5 | 45 | Frank Taughenbaugh..... | Rifle |
| 1 | 47 | Clarence Boston..... | Walden |
| 1 | 48 | R. A. Mosier..... | Jelm, Wyo. |
| 2 | 49 | No Commissioner..... | |
| 5 | 50 | No Commissioner..... | |
| 5 | 51 | P. S. Elting..... | Sulphur Springs |
| 5 | 52 | Carl Forster..... | Radium |
| 5 | 53 | Chas. Plasters..... | Gypsum |
| 6 | 54 | Frank D. Baxter..... | Slater |
| 6 | 55 | No Commissioner..... | |
| 6 | 56 | No Commissioner..... | |
| 6 | 57 | A. R. Gore..... | Hayden |
| 6 | 58 | Wilbur Rule..... | Steamboat Springs |
| 4 | 59 | Leon H. Dutemeyer (Com. at Large)..... | Gunnison |
| 4 | 60 | N. J. Clark..... | Redvale |
| 4 | 61 | Ralph G. Stocks..... | Paradox |
| 4 | 62 | Leon H. Dutemeyer (Com. at Large)..... | Gunnison |
| 4 | 63 | No Commissioner..... | |
| 1 | 64 | Pat Marsh..... | Sterling |
| 1 | 65 | John Hultquist..... | Wray |
| 2 | 67 | R. J. McGrath..... | Lamar |
| 4 | 68 | Dean S. Hailey..... | Ridgway |
| 7 | 69 | F. C. Hardman..... | Cedar |
| 5 | 70 | Geo. Maxwell Anderson..... | DeBeque |

In addition to the foregoing, there are 96 deputy water commissioners serving in the various water districts in the state.

CHAPTER I.

FINANCIAL STATEMENT

FEES RECEIVED BY OFFICE DURING BIENNIUM

January 1, 1939, to December 31, 1940.

| | |
|--|------------------|
| Water Filings..... | \$2,851.00 |
| Blueprints | 611.75 |
| Certifications | 132.00 |
| Examination Dam Plans..... | 272.00 |
| Office Labor..... | 32.50 |
| Recording Transfers Water Filings..... | 1.00 |
| Filing Transfer Decrees..... | 8.00 |
| Total | <hr/> \$3,908.25 |

APPROPRIATIONS

July 1, 1939, to June 30, 1941

| | Appropriation | Transferred | | Total Available | Spent 1939-40 | 1940-41** | Balance 1939-40 | 1940-41 |
|--|---------------------|--------------------|-----------|---------------------|---------------------|---------------------|------------------|---------------------|
| | | From Others | To Others | | | | | |
| PERSONAL SERVICES: | | | | | | | | |
| State Engineer..... | \$ 10,000.00 | | | \$ 10,000.00 | \$ 5,000.00 | \$ 3,749.94 | \$ 0.00 | \$ 1,250.06 |
| Deputy State Engineer..... | 6,000.00 | | | 6,000.00 | 3,000.00 | 2,250.00 | 0.00 | 750.00 |
| Special Deputy, South Platte..... | 5,000.00 | | | 5,000.00 | 2,500.04 | 1,874.97 | -0.04 | 624.99 |
| Special Deputy, La Plata..... | 5,000.00 | | | 5,000.00 | 2,500.04 | 1,874.97 | -0.04 | 624.99 |
| Special Deputy, Rio Grande..... | 5,000.00 | | | 5,000.00 | 2,500.04 | 1,874.97 | -0.04 | 624.99 |
| Special Deputies (Part Time)..... | | | | | | | | |
| Gage Readers and Extra Help..... | 10,000.00 | \$ 1,402.41 | | 11,402.41 | 5,788.57 | 3,375.16 | -\$6.16 | 2,325.16 |
| Five Division Engineers..... | 25,000.00 | | | 25,000.00 | 12,500.20 | 9,374.85 | -\$0.20 | 3,124.95 |
| Chief Hydrographer..... | 4,800.00 | | | 4,800.00 | 2,400.00 | 1,800.00 | 0.00 | 600.00 |
| Five Hydrographers..... | 18,000.00 | | | 18,000.00 | 8,911.32 | 6,750.00 | 88.68 | 2,250.00 |
| Chief Clerk and Asst. Secy, Board Examiners for Engrs. and Land Surveyors* | 5,200.00 | | | 5,200.00 | 2,600.00 | 1,949.94 | 0.00 | 650.06 |
| Two Stenographers..... | 6,000.00 | | | 6,000.00 | 3,000.00 | 2,250.00 | 0.00 | 750.00 |
| TOTAL | \$100,000.00 | \$ 1,402.41 | | \$101,402.41 | \$ 50,700.21 | \$ 37,124.80 | 2.20 | \$ 13,575.20 |
| *\$1,200.00 to be paid from funds of Board. | | | | | | | | |
| **To April 1, 1941. | | | | | | | | |
| MAINTENANCE AND OPERATION: | | | | | | | | |
| Contractual Services..... | \$ 23,600.00 | | \$ 150.00 | \$ 23,450.00 | \$ 11,575.23 | \$ 7,592.00 | \$ 74.77 | \$ 4,208.00 |
| Supplies and Materials..... | 9,000.00 | | 1,502.41 | 7,497.59 | 3,437.85 | 1,763.38 | 259.74 | 2,036.62 |
| Current Charges..... | 2,400.00 | | 175.00 | 1,923.46 | 1,023.46 | 684.01 | 1.54 | 151.99 |
| Capital Outlay..... | 2,480.00 | \$ 425.00 | | 2,905.00 | 1,620.89 | 1,179.35 | 44.11 | 60.65 |
| TOTAL | \$ 37,480.00 | \$ 425.00 | | \$ 36,077.59 | \$ 17,657.43 | \$ 11,218.74 | \$ 380.16 | \$ 6,821.26 |
| GRAND TOTAL | \$137,480.00 | \$ 1,827.41 | | \$137,480.00 | \$ 68,357.64 | \$ 48,343.54 | \$ 382.36 | \$ 20,396.46 |

CHAPTER II.

ADMINISTRATION

During this biennium there were fewer matters of importance, involving administrative procedure, presented to the State Engineer for determination than during any similar period during the tenure of office of the incumbent as State Engineer. This is no doubt due to a better understanding of the irrigation code and practices by the administrative officials and water users, and reflects closer cooperation in carrying on the important functions of distribution and use of the public water supplies of the state. As usual, numerous matters of local importance were, on appeal, considered by the State Engineer. In the main, these matters involved interpretations of court decrees affecting only local interests as between users from one stream.

There is, however, a growing insistence on the part of the water users for closer supervision by the water officials over the distribution of the water supplies, in accordance with the court decrees and the irrigation statutes. This demand becomes more insistent during years of sub-normal stream flow such as have recurred in the past decade, and can be met only by an increase in field and office personnel in the State Engineer's office. Such demand cannot be adequately met by the local water commissioners and their deputies, since the problem generally involves administration and distribution as between districts, such duties falling directly upon the State Engineer, Division Engineers and Special Deputies.

Increase in the number of transmountain diversions and the transit of reservoir water from one district to another, in some cases through two or more water districts, requires constant supervision, which as before stated can be properly supervised only through an increase of personnel in the department. This condition is particularly acute in the South Platte and Arkansas River basins. In the South Platte basin, the administration of transmountain water vitally affects the water supplies of several water districts, and the complexities of the daily problems of administration justify the full time services of a special deputy for this particular work. Requests for additional appropriations to meet these demands have been made to the Budget Commissioner and will also be presented to the proper legislative committees.

Each year brings new adjudication proceedings, adding vast numbers of decrees which must be administered; this in turn imposes on this office and the Division Engineers additional work required for the indexing and filing of these decrees, and the preparation of new registers of priorities, which are necessary for administrative purposes.

Increased diversions by pumping for irrigation purposes have caused numerous inquiries as to the legal status of such diver-

sions, and complaints from senior appropriators claiming injury as a result of such pumping. This problem has become more acute with the shrinkage in recent years of the natural runoff, and the solution thereof, even in a reasonable degree, will tax the ingenuity and ability of the engineering and legal professions of our state and the wisdom and tolerance of the water users thereof. In the absence of legislation definitely authorizing this department to exercise administrative control over pumping plants which do not pump water directly from the visible flow of a stream course, it is the view of the department that no attempt should be made by the water officials to make determinations of fact, nor to administer the operations of pumping plants.

Laramie River Administration

Following the decision of the District Court of Larimer County in 1938, directing the water officials to administer the waters of the Laramie River in conformity with the Colorado court decrees, orders were issued to all owners of ditches to install suitable headgates and measuring devices before any diversions would be permitted during the season of 1939. Such orders were complied with and the installations were made under the supervision of this office. In order to accurately ascertain when Colorado's allocation of 39,750 acre feet, as determined by the U. S. Supreme Court, had been diverted, it was necessary to employ three special deputies to assist the water commissioner of District 48. The six transmountain ditches were equipped with proper measuring devices and automatic recorders. Readings and records were made twice daily of diversions by all ditches not equipped with automatic recorders. The total of 39,750 acre feet allowed by the decree of the U. S. Supreme Court having been diverted on June 18, 1939, all headgates were closed and properly posted.

The same procedure was followed during the season of 1940, and the the total of 39,750 acre feet having been diverted on June 16th, all headgates were closed and posted. As in 1939, the cost of administration was financed almost entirely from funds of the Colorado Water Conservation Board, since no funds were available from the appropriations of this department. Request has been made for sufficient funds to meet the cost of administration of the Laramie River during the next biennium.

Sand Creek Administration

Sand Creek is a small interstate stream rising in Colorado and flowing in a northerly direction into Wyoming. Theoretically, this stream is a tributary of the Laramie River in Wyoming, but, due to the fact that the waters thereof are all consumed before reaching the Laramie River, the Supreme Court of the United States has declared that it is but nominally a tributary of the Laramie River.

For many years more or less friction has occurred between the water users along this stream in both states as a result of conflicting claims and counter-claims. In an attempt to adjust these difficulties, water users in both states, with the assistance of the State Engineers and the Attorneys General of the two states, agreed to a temporary plan of interstate administration for 1938 through the services of temporary deputies, which was eminently satisfactory to the water users in both states. This agreement provided that all diversion ditches should be equipped with proper measuring devices; that records of daily diversions of water would be kept and exchanged between the two states.

In March, 1939, the water users in both states entered into a new agreement providing for the administration of the waters of Sand Creek, which is in the nature of a permanent agreement, or the basis for a permanent agreement, which was approved by the State Engineers and Attorneys General of the two states. The waters of the stream were administered in 1939 and 1940 without friction, and it is hoped that, through this understanding and mutual cooperation, future friction on this stream may be eliminated.

This department for some years has been seriously handicapped by lack of adequate appropriations. This condition, as has been stated, is becoming increasingly acute, and is brought definitely to the attention of yourself and the water users, with the hope that the appropriations to the department may be increased in an amount commensurate with the demands this department is called upon to meet.

DECISIONS ON APPEALS TO STATE ENGINEER

In June of 1939 an appeal was made to the State Engineer requesting a definite construction of certain decrees in Water District No. 4. This involved the administration of the original priorities of the Big Thompson Ditch and Manufacturing Company's ditch and several transfers from these priorities to other ditches in the District. Following a hearing, with all interested parties represented in person or by counsel, due to the urgent nature of the problem as a result of extreme drought, a compromise without prejudice was agreed to as a temporary solution, with the understanding that a definite ruling would be entered before the next irrigation season. Following this hearing, each interested party was requested to file written briefs and, after due consideration of these in collaboration with the Attorney General, definite written instructions were issued to the water commissioner for his guidance in administering the decrees in question. Since no appeal has been made to the district court, it is assumed that the matter has been amicably adjusted. Copy of the ruling, too voluminous to include here, is available in the files of the office for consultation.

In November, 1940, a written appeal was filed by the Cache la Poudre Water Users Association from an order issued October 31st by the Acting Division Engineer of Irrigation Division No. 1 to the Water Commissioner of District No. 3. Said order limited diversions in District No. 3 to priorities senior to October 1, 1888, for the purpose of supplying water for senior priorities in District No. 1. The appeal was dismissed without a hearing, as it appeared there was no basis for said complaint, on which action no appeal to the court was made.

On November 12, 1940, a hearing was held on an appeal by the North Poudre Irrigation Company from an order of the Water Commissioner of District No. 3. Said order denied the claim of plaintiff to the alleged ownership of the water then stored in Halligan Reservoir, for the reason that the water had been stored subject to the rights and demands of senior appropriators, one of which, the Warren Reservoir, had then made demand. Following the hearing, the appeal was withdrawn to permit further conferences between the local interests involved, since which no further objections or requests have been filed by appellant with the State Engineer.

In June, 1940, an appeal was made by the Town of Erie from the action of the Water Commissioner of District No. 6, refusing to allow water diverted by the Town through the South Boulder Canon Ditch, for direct irrigation, to be temporarily stored in the Town's reservoir. Following a hearing before the State Engineer, the action of the Water Commissioner was upheld upon his interpretation of the decision of the Supreme Court in the case of Greeley and Loveland Irrigation Co. vs. Farmers' Pawnee Ditch Co., reported in 58 Colo., page 462, in which it was held that water decreed for direct use may not be stored, even temporarily, for future use. Appeal by the Town was taken to the District Court, which enjoined the water officials from interfering with such diversion and storage. Since the water officials are nominal defendant in such matters, and no adverse appropriators having entered an appearance, it is considered that the ruling by the district court does not in any manner change the rule laid down by the Supreme Court, i.e. that water decreed for direct irrigation may not be stored for future use.

On June 29, 1940, a hearing was held before the State Engineer on an appeal by the Weldon Valley Ditch Company from the action of the Water Commissioner of District No. 1 closing the headgate of the Weldon Valley Ditch to supply the senior priority of the Schneider Ditch in District No. 64. The appeal was based on the contention that such action resulted in a waste of water, since little, if any, of the water then being diverted by the Weldon Valley Ditch, if discontinued, would reach the headgate of the Schneider Ditch. As no concrete or conclusive evidence was presented in support of this contention, upon request of attorney for the appellant, the appeal was withdrawn without prejudice.

On July 25, 1940, the Fort Lyon Canal Company appealed to this office from the action of the Water Commissioner of District No. 17 and the Division Engineer, permitting the Las Animas Consolidated Canal Company to intercept and divert under its Jones Ditch priority, water which the Fort Lyon Canal Company was being required to pass down the river to satisfy the senior priorities of the Lamar and the Las Animas Town Ditch, which priorities are junior in date to those of the Jones Ditch priority. Based largely upon our former rulings on contentions which had theretofore arisen between the Ft. Lyon and Las Animas Consolidated Companies with respect to the operation of the Jones' ditch decree, which rulings have been sustained by the courts, the State Engineer on July 27, 1940, directed the Division Engineer to prevent any diversions by the Las Animas Consolidated Canal Company, by virtue of its Jones Ditch priority for 22.3 second feet, when any part of the water represented by the latter decree is being taken away from the Ft. Lyon Canal Company to satisfy priorities senior in date to the first priority of the Ft. Lyon Canal. From this ruling, the Las Animas Consolidated Canal Company has appealed to the district court, which has as yet made no finding.

On March 20, 1940, the Peterson, Carr and Barrow Ditch Company and the Patterson Ditch Company appealed to the State Engineer from a ruling of Division Engineer Hotchkiss, which ruling, after full consideration of the voluminous record submitted by the plaintiff ditch companies, was upheld by the State Engineer on April 27, 1940, and from which no appeal has been taken.

In April, 1935, Miss Agnes Zimmerman filed a suit against the Water Commissioner of District No. 3, the Deputy State Engineer, and the State Engineer, alleging among other things that, as owner of a decreed water right for Zimmerman Lake, she has sustained heavy pecuniary damages as a result of alleged illegal acts on the part of the water officials.

The suit was filed in the Denver District Court and, on application for change of venue, was transferred to the District Court of Larimer County. Upon motion as to the complaint, and upon sustaining of a demurrer on behalf of the defendants, the cause was twice appealed to the State Supreme Court. The cause was finally remanded to the District Court for trial upon two of the original four causes of action, namely, that of alleged conspiracy upon the part of the defendant water officials to injure the right of the plaintiff and then refusal to deliver water when allegedly available for the decree of Zimmerman Lake. Upon trial before the Court in March, 1941, the cause was dismissed upon finding of the facts, and application for rehearing denied.

CHAPTER III.

WATER SUPPLY, SEASONAL AND CROP CONDITIONS

In the South Platte drainage basin, excessive rains resulting in heavy runoff during the fall of 1938 permitted the storage of all available water until May 3, 1939, without administrative limitation. Heavy runoff in March, 1939, was exceptional and caused peak discharges for the year in several streams and added materially to storage. This exceptional runoff was the result of a heavy snow cover on frozen ground in the lower elevations, and to above-normal temperatures during this period.

Above-normal storage very materially supplemented the deficient runoff during the growing season of 1939, without which a serious deficiency in crops would have resulted.

Crops, as to yield and quality, in general were about 70 per cent of normal but in some sections were only 50 per cent of normal.

Sub-normal stream flow conditions were also reflected in transmountain diversions, which delivered but 71 per cent of the amount delivered in 1938.

The quantity of water in storage on May 1, 1940, was 42 per cent of the amount in storage on May 1, 1939, and the usual increase in storage during June was lacking.

Stream flow during the year of 1940 was one of the lowest of record, which, together with the sub-normal storage on May 1st and excessive temperatures during June, July and the first part of August, resulted in a situation without precedent in the South Platte drainage basin. However, most timely and beneficial rains immediately following this period resulted in crops which exceeded expectations and were, on the average, above those of 1939 as to yield and quality.

In the Arkansas River drainage basin, prospects and conditions in the fall and winter of 1938-39 were excellent, and indicated a year of normal runoff. Lack of precipitation and excessive temperatures during the growing season of 1939 changed this favorable outlook to a year of deficient water supply, which resulted in another year of generally poor crop yields.

At the beginning of the irrigation season in 1940, the quantity of water in storage was below normal, and the water content of the snow in the higher elevations was but 50 per cent of normal. During April and May, above-normal precipitation was of benefit to all crops. Lack of normal precipitation and extremely low runoff during the remainder of the growing season, however, resulted in poor crop returns.

In the San Luis Valley during the season of 1939, conditions were abnormal in several respects. Storage at the beginning of the season was above normal, with stream flow and precipitation during the growing season below normal. As a result, many

ditches were without water after June 1st, which caused crop losses of from 25 to 50 per cent. Killing frosts during May and June caused heavy damage to alfalfa and the potato and pea crops.

Conditions in the season of 1940 were without precedent, except in 1934. Storage available was the lowest of record, with the exception of 1934. Stream flow was but 42 per cent of normal, being less than that of 1934, and approaching that of the record low year of 1902. The shortage in stream flow was relieved to a considerable extent by pumping from underground water. It has been reported that some 550 pumping plants were in operation in the valley, which, it has been estimated, pumped approximately 200,000 acre feet during the season of 1940.

Crops were fair and, in general, were better than in 1939, although prices for potatoes in particular were poor.

Conditions on the western slope of the state during the season of 1939 were in general similar to those on the eastern slope. There was an above-normal amount of water in storage at the beginning of the season, but low stream flow and lack of precipitation during the season resulted in serious crop losses.

During 1940, although there was less than the average storage available, and in many sections the lowest stream flow of record occurred, crops were better than in 1939, due to beneficial rains during the growing season.

CHAPTER IV.

STORAGE RESERVOIR DAMS

New Construction

The construction of new storage reservoir dams during the biennium kept pace with construction in previous years, and some of those under construction, or which were completed within the past two years, rank favorably as to size, cost and importance, with older structures.

The name, height and capacity of the more important of these are as follows:

| Name | Location | Height of dam in feet | Capacity of Res. in ac. ft. |
|-----------------------------------|--------------------------|-----------------------|-----------------------------|
| John Martin ¹ | Arkansas River..... | 150 | 655,000 |
| Granby ² | Colorado River..... | 223 | 496,000 |
| Green Mountain ² | Blue River..... | 270 | 152,000 |
| Vallecito ² | Pine River..... | 125 | 126,000 |
| Groundhog..... | Groundhog Creek..... | 139 | 23,000 |
| Stillwater..... | Yampa River..... | 70 | 6,000 |
| Fruit Growers ² | North Fork Gunnison..... | 53 | 4,300 |
| Hallenbeck..... | Kannah Creek..... | 40 | 993 |
| Onion Valley..... | Crystal Creek..... | 63 | 5,000 |
| Silver Lake..... | Boulder Creek..... | 15 | 675 |
| Milton Seaman..... | North Fork Poudre..... | 100 | 4,600 |
| Smith Lake..... | Clear Creek..... | 22 | 361 |

¹Being constructed by the Corps of U. S. Engineers.

²Being constructed by the U. S. Bureau of Reclamation.

In addition to the foregoing dams, plans and specifications were approved for the construction of the following dams, many of which were completed:

| Name | Location | Height of dam in feet | Capacity of Res. in ac. ft. |
|------------------------|------------------------|-----------------------|-----------------------------|
| Jas. W. Dennis | Dry Creek | 17 | 155 |
| Albert Calkum | Trib. Rush Creek | 15.3 | 12.65 |
| Rule Creek | Rule Creek | 32 | |
| John L. Jones | Furnish Creek | 40 | 328 |
| Fruita No. 4 | North East Creek | 35 | 54.5 |
| L. G. Kinney | Springs | 19.5 | 39.75 |
| G. H. & S. | North East Creek | 32 | 150.2 |
| Brett Gray | Trib. Little Horse Cr. | 23.5 | 263.7 |
| Chase Gulch Lake | Chase Gulch | 22.5 | |
| Fall Creek | Fall Creek | 21 | 146 |
| J. C. Higbee | Trib. Big Sandy | 18 | 12 |
| C. H. Parke | Trib. Beaver Creek | 25.5 | 74 |
| Fuchs | Pinos Creek | 21 | 189 |
| Ryan | Bennett Creek | 41 | 458 |
| Seidensticker No. 6 | Trib. Sellers Gulch | 21 | 16 |
| Schutte Gulch | Schutte Gulch | 17 | 25 |
| Smizer Gulch | Smizer Gulch | 15 | 10 |
| Gagliardi | Barney Creek | 20 | 284 |
| Hidden Draw | Natural Runoff | 15 | 12 |
| Crescent Lakes 1 and 2 | South Derby Creek | 13 | 237 and 137 |
| Tract 1828 | | 9.25 | 73 |
| Skyscraper | Woodland Creek | 22 | 146 |
| Luark | Sunnyside Creek | 27 | 86 |
| McDonough | Los Pinos Creek | 57 | 519 |
| California Park | Elk Head Creek | 36 | 4,000 |
| Full Moon | Springs | 13 | 55 |
| Cortez | Trib. Dolores River | 37 | 70 |

Plans and specifications were approved for repairs to, or enlargement of, the following dams:

| Name | Location | Height of dam in feet | Capacity of Res. in ac. ft. |
|------------------|---------------------|-----------------------|-----------------------------|
| Summit | Lost Canon Creek | 20 | 4,793 |
| Juñata | Kannah Creek | 30 | 336 |
| Bauer Lake No. 1 | | 26 | 130 |
| Bauer Lake No. 2 | | 35 | 1,073 |
| Hughes | Three Mile Creek | 30 | 1,503 |
| Glacier Lake | North Boulder Creek | 21 | 108 |
| Pleasant Valley | St. Vrain Creek | 19 | 3,076 |
| Noonen No. 2 | Deer Trail Creek | 20 | 1,500 |
| Casto | Gill Creek | 23 | 633 |
| Park | Surface Creek | 51 | 3,240 |
| Wakeman | | 22.5 | 122 |
| Goose Lake | North Boulder Creek | 35 | 1,036 |
| Island Lake | North Boulder Creek | 16 | 372 |

Practically all storage dams were inspected within the biennium, as a result of which repairs to a number of dams were ordered made. These generally consisted of repairs to spillways, outlets, riprap, drains and measuring devices.

At the large North Sterling Reservoir, a new inlet was constructed and the downstream slope of the dam was reinforced with additional embankment material and the riprap repaired.

Important repairs in the way of a drainage system and enlargement of spillway were made at the Juanita Dam on Kannah Creek.

The entire water face of Pleasant Valley Dam was reconstructed and riprappd, and the Noonan Dam, which failed in the great flood of 1935, was rebuilt.

Glacier Lake Dam was strengthened and raised and spillway enlarged.

The drainage system below Barr Lake Dam was repaired and enlarged.

New trash racks were installed at Denver's Kenwood flood control dam on Cherry Creek.

Extensive improvements were made in the spillway of the St. Charles No. 3 Dam, owned by the Colorado Fuel and Iron Company.

Up to July 1, 1940, the following numbers of small earth dams were reported as having been constructed in the state by the designated federal agencies:

| | Number | Av. Capacity in Ac. Ft. |
|---|--------|----------------------------|
| Forest Service..... | 212 | 6.17 |
| Soil Conservation Service..... | 504 | 3.00 |
| Taylor Grazing Act Administration.. | 106 | 8.05 |
| Agricultural Adjustment Act Agencies | 2,144* | Unknown |
| | 2,966 | |

*Incomplete list.

The total number of storage reservoirs in Colorado, according to the records of the State Engineer's office as of October 1, 1940, is 1,780, with a total capacity of 3,624,205 acre feet. Of this number, 379 are too small to come under state supervision requiring approval of plans, which leaves a total of 1,401 storage reservoir dams which are under state control. This total number includes but a few of the reported total number of 2,966 reservoir dams built by federal agencies.

The failure of but two dams coming under state supervision occurred within the biennium, these being the Moonshine and Ireland No. 5 small earth dams located on Box Elder Creek near Denver.

Resurveys were made under the supervision of this office to determine the capacities of Halligan and Fossil Creek Reservoirs in Water District No. 3.

Legislation to control construction of dams to be used exclusively for storing water for livestock uses, is pending in the present Legislature. Such legislation would authorize and limit such construction to dams to a maximum height at spillway level of 15 feet, and reservoir capacity of 10 acre feet, and would require that such structures be built under the supervision of the State Engineer.

CHAPTER V.

MEETINGS WITH OTHER STATE AGENCIES OF WHICH THE STATE ENGINEER IS A MEMBER

Within the biennium, the State Engineer attended all but two of the numerous meetings of the Colorado Water Conservation Board; he attended a number of the meetings of the State Planning Commission, particularly those held for discussion of water conservation measures and the building program for state institutions.

Due to absence from the office, it was not possible to attend all the meetings of the Board of Examiners for Engineers and Land Surveyors.

No meetings of the Irrigation District Commission, nor of the Board of Conservation of Colorado, were held, since no applications for the formation of districts under these Acts were received.

Various regional meetings of the National Resources Planning Board were also attended.

In addition, the State Engineer attended flood control hearings on Bear and Cherry Creeks, the Fountain and South Platte Rivers, held by the U. S. Corps of Engineers. Attendance at similar hearings at Grand Junction and Durango was not possible due to pressure of other matters. He attended hearings in Estes Park before a committee of U. S. Senators on proposed legislation to increase the boundaries of the Rocky Mountain National Park; also meetings of the National Rivers and Harbors Congress in Washington and Chicago, and a meeting of the water users along the La Plata River in Colorado and in New Mexico, with representatives of the U. S. Bureau of Reclamation, to discuss plans for water conservation and flood control.

Several meetings with water users' associations throughout the state were attended and no little time was expended on inspection trips to the Stillwater Dam on Yampa River, which was under construction during the biennium. These inspections, and the unusual number of conferences in connection therewith, were largely due to serious difficulties encountered as a result of faulty foundations at this dam discovered after construction was initiated, which required a relocation of the dam and important changes in the original plans therefor.

CHAPTER VI.

ADMINISTRATION OF INTERSTATE RIVER COMPACTS

La Plata River Compact

Although the water supply of the La Plata River in 1939 and 1940 was one of the lowest of record, no unusual difficulties of

administration arose, thanks to the efficient work of Special Deputy J. R. Williams and the cooperation of the officials of New Mexico. The usual complete reports on water supply, water uses and administration of the compact for the biennium are on file in this office.

South Platte Compact

This compact, with the State of Nebraska, was administered without friction.

Rio Grande Compact

Administration of the Rio Grande Compact, which was signed at Santa Fe, New Mexico, on March 18, 1938, and which became effective on May 31, 1939, was initiated on January 1, 1940. The first and second annual meetings of the Compact Commission were held at El Paso and Santa Fe, respectively. In addition, six called meetings were held by the Commission in Denver, Monte Vista, Santa Fe and El Paso. Rules and regulations to govern the deliberations and activities of the Commission were adopted at El Paso on December 19, 1939. The Commission employed a secretary, effective January 1, 1940, to collect and correlate factual data for the Commission required for the administration of the compact. At the end of the calendar year 1940, the secretary's annual report disclosed that Colorado had an accrued debit in its 1940 deliveries of water at the Colorado-New Mexico stateline, of 19,300 acre feet, and New Mexico an accrued debit of 55,900 acre feet at San Marcial, and that the annual release of water from project storage in the Elephant Butte Reservoir was 56,900 acre feet less than the normal release of 790,000 acre feet. This condition was due to sub-normal runoff from the Rio Grande basin above Elephant Butte Reservoir. The annual report of the secretary for 1940 is on file in this office.

CHAPTER VII.

INTERSTATE COMPACT NEGOTIATIONS

Following a conference of the Governors of Colorado, Kansas and Nebraska at McCook, Nebraska, on December 22, 1939, to discuss the need for an interstate compact or agreement covering the waters of the Republican River basin, the Governors appointed an interstate Commission to make an equitable division of the waters of that basin between the three states. The State Engineer of Colorado was designated to represent Colorado on this Commission. The Commission held eight meetings in Denver,

Lincoln and Topeka, and on March 19, 1941, signed a compact dividing the waters of that stream basin. A copy of the compact, together with my letter transmitting the same to you follows:

March 20, 1941.

His Excellency, Ralph L. Carr
Governor of Colorado
Denver, Colorado

My Dear Governor Carr:

I have the honor to transmit herewith for your consideration and further disposition two original drafts of a compact, which it is believed equitably apportions the waters of the Republican River basin between the States of Colorado, Kansas and Nebraska. This compact, the result of several months of investigations, study and eight conferences between the commissioners, their legal advisers, and water users of the three states, was signed at Denver on March 19, 1941, by the three compact commissioners appointed by the Governors of the signatory states.

Since it appears that no interest of the federal government, by virtue of ownership of property or of any responsibility as a result of interstate or international treaties, or obligation to Indian tribes, is involved, no representative of the government was invited to participate in the deliberations of the Commission, nor to approve its findings and conclusions.

In its deliberations, the Commission gave careful consideration to the report of the Division Engineer, Corps of U. S. Engineers, dated February 27, 1940, to the Chief of Engineers, covering the comprehensive study by the Corps on flood control in the Republican River basin and related matters, and to preliminary and progress reports by the U. S. Bureau of Reclamation, which is conducting a comprehensive and detailed investigation of the land and water resources of this basin; also to a voluminous report of the Bureau of Agricultural Economics of the U. S. Department of Agriculture on the underground water resources of the Republican River basin and their availability for beneficial application to the future development of the basin.

While the absence of extensive development of the natural resources of the Republican River basin tended to simplify the problem of allocations of the waters therein, the Commission was confronted with other difficult problems involving a multiplicity of primary and secondary tributary streams, which are largely dissociated in their possibilities for use, and which, due to their erratic character, will require extensive regulatory works throughout the basin.

The compact allocates to Colorado, its citizens, agencies, associations and corporations all of the surface and underground water supplies originating in Colorado within the Frenchman and Red

Willow Creek drainage basins; about 23 per cent of those of the North Fork of the Republican; 80 per cent of those of the Arikaree River; 77 per cent of those of the South Fork of the Republican; and an estimated 100 per cent of those of the Beaver Creek basin, which it is believed is the limit of consumptive use which it is practicable to make in Colorado of the waters from these stream basins.

It should be borne in mind that these allocations of water are for beneficial **consumptive** use and do not limit the right of Colorado, or any of its agencies, to divert and apply much greater quantities of water than the amounts allocated by the compact.

The compact, when ratified by the Legislatures of the signatory states and consented to by the Congress of the United States, provides the basis for an orderly planning of the regulation, conservation, and efficient use of the waters of the basin, unhampered by uncertainties arising out of interstate conflicts or misunderstandings.

As hereinabove stated, it is believed that the compact equitably apportions between the signatory states all the waters of the Republican River basin. As commissioner for the State of Colorado, I therefore respectfully recommend that this compact be transmitted with a special message to the present General Assembly of our state for ratification.

In conclusion, I desire to express to you my deep sense of appreciation for the confidence reposed in me as the official representative of our state to carry out these important negotiations, and for the invaluable assistance from you as a result of your ripe experience in these interstate matters. I also desire to acknowledge the loyal support and valuable aid received from Attorney General Gail L. Ireland, who was my legal adviser during the final preparation of the compact, to Clifford H. Stone, Esquire, for valued suggestions; to Mr. A. C. Stiefel, assistant chief engineer of the Colorado Water Conservation Board, who prepared the map of the Republican River basin which is made a part of the compact, and to Senators Burt Ragan and Harry M. McKinney, and Representatives C. J. Buchanan and Harold A. Tabor, who have at all times given me sympathetic and loyal support.

Titles for Senate Bill No. 42, by Senators Ragan and McKinney, and House Bill No. 186, by Representatives Buchanan and Tabor, have heretofore been introduced in the present Legislature, under which the compact, if approved by you, may be properly presented to the Legislature for final disposition.

Respectfully,

M. C. HINDERLIDER,
Republican River Compact Com'r for Colorado.

REPUBLICAN RIVER COMPACT

The States of Colorado, Kansas and Nebraska, hereinafter designated as Colorado, Kansas and Nebraska, respectively, desiring to remove any and all causes, present or future, which might lead to controversies with respect to use of the waters of the Republican River Basin, and being actuated by considerations of interstate comity, and by a desire to effectuate an equitable division of the waters of the Republican River Basin and the efficient beneficial consumptive uses thereof, and in consideration of the mutual advantages resulting therefrom within their respective boundaries, and pursuant to Acts of their respective Legislatures, have resolved to conclude a compact for the attainment of these purposes, and to that end, through their respective Governors, have named as their respective commissioners for the negotiating of such a compact:

M. C. Hinderlider, for the State of Colorado.

George S. Knapp, for the State of Kansas, and

Wardner G. Scott, for the State of Nebraska,

who have agreed upon the following Articles, to-wit:

ARTICLE I.

The Republican River Basin, hereinafter referred to as the "Basin," is herein designated to mean all the area in the States of Colorado, Kansas and Nebraska, which is naturally drained by the Republican River and all of its tributaries to its junction with the Smoky Hill River in Kansas, a map of which signed by the commissioners hereinabove named, is attached hereto and by reference made a part thereof.

The Republican River and tributaries thereof within the Basin, as hereinabove defined, are not navigable, and all users of water of a consumptive nature, as hereinafter defined, wherever such uses may occur within the Basin, shall constitute paramount uses.

ARTICLE II.

The term "Virgin Water Supply", as herein used is defined to be the water supply within the Basin undepleted by the activities of man.

The term "Beneficial Consumptive Use" is herein defined to be that use by which the natural water supply of a drainage basin is consumed by the activities of man, and shall include water consumed by evaporation from reservoirs, canals, ditches and irrigated areas.

Beneficial consumptive use shall be the basis and measure of the right to divert and use the natural waters of the Basin, by the citizens, agencies, associations and corporations of the signatory states, and upon this principle the following allocations of water herein made are predicated.

ARTICLE III.

There is hereby allocated to Colorado for use annually a total of fifty-four thousand one hundred (54,100) acre feet of water. This total is to be derived from the sources and in the amounts hereinafter described, and is subject to such quantities being physically available from those sources:

North Fork of the Republican River drainage basin, 10,000 acre feet;

Arikaree River drainage basin, 15,400 acre feet;

South Fork of the Republican River drainage basin, 25,400 acre feet;

Beaver Creek drainage basin, 3,300 acre feet;

In addition thereto there is hereby allocated to Colorado for use annually the entire water supply of the Frenchman and Red Willow Creek drainage basins in Colorado.

There is hereby allocated to Kansas for use annually a total of one hundred ninety thousand three hundred (190,300) acre feet of water. This total is to be derived from the sources and in the amounts hereinafter described and is subject to such quantities being physically available from those sources:

Arikaree River drainage basin, 1,000 acre feet;

South Fork of the Republican River drainage basin, 23,000 acre feet;

Driftwood Creek drainage basin, 500 acre feet;

Beaver Creek drainage basin, 6,400 acre feet;

Sappa Creek drainage basin, 8,800 acre feet;

Prairie Dog Creek drainage basin, 12,600 acre feet;

The main stem of the Republican River at the Nebraska-Kansas state line, 138,000 acre feet, provided that Kansas shall have the right to divert all or any portion thereof at or near the Town of Guide Rock, Nebraska.

And in addition thereto there is hereby allocated to Kansas for use annually the entire water supply originating in the Basin below the Nebraska-Kansas state line.

There is hereby allocated to Nebraska for use annually a total of two hundred thirty-four thousand five hundred (234,500) acre feet of water. This total is to be derived from the sources and in the amounts hereinafter described and is subject to such quantities being physically available from those sources:

North Fork of the Republican River drainage basin in Colorado, 11,000 acre feet;

Frenchman River drainage basin in Nebraska, 52,800 acre feet;

Rock Creek drainage basin, 4,400 acre feet;

Arikaree River drainage basin, 3,300 acre feet;

Buffalo Creek drainage basin, 2,600 acre feet ;
 South Fork of the Republican River drainage basin, 800 acre feet ;
 Driftwood Creek drainage basin, 1,200 acre feet ;
 Red Willow Creek drainage basin in Nebraska, 4,200 acre feet ;
 Medicine Creek drainage basin, 4,600 acre feet ;
 Beaver Creek drainage basin, 6,700 acre feet ;
 Sappa Creek drainage basin, 8,800 acre feet ;
 Prairie Dog Creek drainage basin, 2,100 acre feet ;

The North Fork of the Republican River in Nebraska and the main stem of the Republican River between the Colorado-Nebraska state line and the Nebraska-Kansas state line, and from the small tributaries thereof, 132,000 acre feet.

The use of the waters hereinabove allocated shall be subject to the laws of the state to which the allocations are made. No state shall have the right to dictate the method of distribution or place of use of the waters herein allocated to another state.

ARTICLE IV.

The specific allocations in acre feet made to each signatory state by Article III are derived from the computed average annual virgin water supply originating in the following designated drainage basins in the amounts shown :

North Fork of the Republican River drainage basin in Colorado, 44,700 acre feet ;

Arikaree River drainage basin, 19,610 acre feet ;
 Buffalo Creek drainage basin, 7,890 acre feet ;
 Rock Creek drainage basin, 11,000 acre feet ;
 South Fork of the Republican River drainage basin, 57,200 acre feet ;

Frenchman River drainage basin, 98,500 acre feet ;

Blackwood Creek drainage basin, 6,800 acre feet ;

Driftwood Creek drainage basin, 7,300 acre feet ;

Red Willow Creek drainage basin, 21,900 acre feet ;

Medicine Creek drainage basin, 50,800 acre feet ;

Beaver Creek drainage basin, 16,500 acre feet ;

Sappa Creek drainage basin, 21,400 acre feet ;

Prairie Dog Creek drainage basin, 27,600 acre feet ;

The North Fork of the Republican River in Nebraska and in the main stem of the Republican River between the Colorado-Nebraska state line and the Nebraska-Kansas state line and the small tributaries thereof, 87,700 acre feet.

Should the future computed virgin water supply of any

source vary more than ten (10) per cent from the virgin water supply as hereinabove set forth, the allocations herein made from such source shall be increased or decreased in the relative proportions that the future computed virgin water supply of such source bears to the computed virgin water supply used herein.

ARTICLE V.

The judgment and all provisions thereof in the case of Adalbert A. Weiland, as State Engineer of the State of Colorado, et al, v. The Pioneer Irrigation Company, decided June 5, 1922, and reported in 259 U. S. 498, affecting the Pioneer Irrigation ditch or canal, are hereby recognized as binding upon the signatory states hereto and the people of each of said states, and Colorado, through its duly authorized officials, shall have the perpetual and exclusive right to control and regulate diversions of water at all times by said canal in conformity with said judgment.

The water decrees heretofore adjudicated to said Pioneer Canal by the District Court of Colorado in the amount of fifty (50) cubic feet per second of time is included in and is a part of the total amounts of water hereinbefore allocated to the States of Colorado and Nebraska.

ARTICLE VI.

A lower signatory state, its citizens, agencies, associations and corporations, shall have the right to construct or participate in the future construction and use of any storage reservoir or diversion works in an upper state for the purpose of regulating water herein allocated to such lower state, provided that such right is subject to the rights of the upper state, its citizens, agencies, associations and corporations, to control, regulate and use the waters herein allocated to it.

ARTICLE VII.

A lower signatory state, its citizens, agencies, associations and corporations, shall have the right to acquire in an upper state by purchase, or through exercise of the power of eminent domain, such easements and rights of way, for the construction, operation and maintenance of storage reservoirs, and of appurtenant works, canals and conduits, required for the enjoyment of the privileges granted by Article VI; provided, however, the grantees of such rights shall pay to the governmental agencies in which such works are located, each and every year during which such rights of way are occupied for such purposes, a sum of money equivalent to the average annual amount of taxes assessed against the lands and improvements so occupied, based upon the ten years preceding the use of such lands, in reimbursement for the loss of taxes to said governmental agencies.

ARTICLE VIII.

Should any facilities be constructed in an upper state under the provisions of Article VI, such construction and the operation of such facilities shall be subject to the laws of such upper state.

Any repairs to or replacements of such facilities shall also be made in accordance with the laws of such upper state.

ARTICLE IX.

It shall be the duty of the three signatory states to administer this compact through the official in each state who is now or may hereafter be charged with the duty of administering the public water supplies, and to collect and correlate through such officials the data necessary for the proper administration of the provisions of this compact.

ARTICLE X.

The physical and other conditions peculiar to the Republican River basin constitute the basis for this compact, and none of the signatory states hereby concedes that this compact establishes any general principle or precedent with respect to any other interstate stream.

ARTICLE XI.

This compact shall become operative when ratified by the Legislatures of each of the signatory states and consented to by the Congress of the United States. Notice of ratification by the Legislature of a state shall be given by the Governor of such state to the Governors of the other states, and the President of the United States is requested to give notice to the Governors of the signatory states of consent by the Congress of the United States.

IN WITNESS WHEREOF, the Commissioners have signed this compact in quadruplicate original, one of which shall be deposited in the archives of the Department of State of the United States of America and shall be deemed the authoritative original, and of which a duly certified copy shall be forwarded to the Governor of each of the signatory states.

Done in the City of Denver, in the State of Colorado, on the nineteenth day of March, in the year of our Lord, one thousand nine hundred and forty-one.

M. C. HINDERLIDER,
Commissioner for Colorado.

GEORGE S. KNAPP,
Commissioner for Kansas.

WARDNER G. SCOTT,
Commissioner for Nebraska.

The compact is now before the Legislatures of the three states for ratification.

CHAPTER VIII.**INTERSTATE RIVER SUITS**

During the biennium, testimony in the case of *Colorado v. Kansas*, over the waters of the Arkansas River, was concluded, and the Stipulation of 1933 between the states, predicated upon the construction of the Caddoa (Jno. Martin) dam was made a part of the record as a joint exhibit of both states.

During 1940, negotiations have been carried on between representatives of the two states and their legal and engineering advisers, in an attempt to formulate a Consent Decree to terminate pending litigation and, so far as possible, eliminate future controversies between the two states. It is hoped and expected that these negotiations will be concluded during the calendar year 1941.

The case of the State of Nebraska, Complainant, v. the State of Wyoming, Defendant, the State of Colorado, Impleaded Defendant, and the United States of America, Intervener, over the waters of the North Platte River, was active during the biennium,—with the State of Colorado submitting its evidence at hearings held in May and October of 1940. Testimony in this case, thus far submitted by all parties in interest before the Honorable Michael J. Doherty, Special Master, amounts to approximately 25,000 pages and more than 1000 exhibits. The next hearing is scheduled to start April 15, 1941, at which time it is expected that the testimony in behalf of the State of Colorado will be completed. Negotiations between the Governors and Attorneys General of the three states have been undertaken, with a view to settling the controversy between the states by consent decree or compact. After the direct testimony has been concluded, it is expected that these negotiations will be resumed, but may be deferred until completion of rebuttal testimony.

Litigation initiated by the State of Wyoming over the Laramie River, which involved a citation for contempt, has been settled by a decision of the United States Supreme Court. Under this decision, the State of Colorado is entitled to divert a total of 39,750 acre feet of water per annum from the Laramie River. Under a decision of the District Court of the State of Colorado, such total diversions must be made in cubic feet per second by the meadowland and transmountain ditches in accordance with their state decrees. This decision has resulted in an attempt to divert as much water as possible and as rapidly as possible, with the result that the total allocation to the state is reached, and all diversions are required to cease, about the middle of June of each season. Negotiations are under way between the owners of the meadowland and transmountain ditches, with the view of allocating to each group an equitable share of the total quantity specified by the United States Supreme Court, to the end that the most efficient

use of Colorado's share of the river may be secured. It is hoped that this agreement between the two groups of opposing interests will be concluded and put into effect before the irrigation season of 1941.

CHAPTER IX.

REPORT OF HYDROGRAPHIC DEPARTMENT

By L. T. Burgess, Chief Hydrographer.

Another two years of below-normal stream flow occurred in the past biennium, with stream discharges in 1940 considerably below those for the water year of 1939. Deficiencies in winter and spring snow supplies, together with lack of summer precipitation, produced less runoff at several stream gaging stations than during the year of 1934.

The average flow at 27 representative stream gaging stations throughout the state during the 1939 water year was 72 per cent of normal, and 58 per cent of normal in 1940. These figures are based on the average of 35 years of recorded stream flow covering periods of from 12 to 57 years.

A rather unusual condition was the absence of floods during 1939 and 1940. Peak flows in 1939 were about twice as great as those in 1940. Such flows occurred in the South Platte River in 1939 as a result of snows over the foothills and plains regions. Similar flows occurred in March, 1939, between Denver and the Colorado-Nebraska state line. Timely rains in the latter part of September, 1940, replenished depleted stream flow and resulted in the saving of crops, without which serious losses would have occurred.

A total of 208 official stream gaging stations are maintained in Colorado in the following drainage basins:

| | |
|--|----|
| North and South Platte River basins..... | 52 |
| Arkansas River basin..... | 26 |
| Rio Grande River basin..... | 35 |
| Colorado River basin..... | 57 |
| Green and Yampa River basins..... | 8 |
| San Juan River basin..... | 30 |

208

In addition, approximately 10 other stations, for which the data are not published, are being maintained for the assistance of water commissioners in their administrative duties.

The measurement and recording of diversions by transmountain ditches and tunnels require increasing attention each year. Such diversions must be measured not only at their source, but also at points of delivery into another drainage basin and again

at points of diversion for use. There is now a total of 26 transmountain diversions in the state. The majority of these bring water from the western slope into eastern slope areas. These diversion ditches are equipped with Parshall measuring flumes and automatic recording instruments, but it is still necessary to rate and inspect the flumes and recording equipment frequently to obtain proper records of such diversions.

Due to the large diversions by the Independence Pass and Moffat tunnels, tables of corrected flow of the Roaring Fork River at Aspen and Fraser River at Winter Park are published so that a proper comparison of the records of flow at those points may be made with the long time records of stream flow before such transmountain diversions were initiated. Similar correction tables have been prepared and published for the Williams Fork River at Steelman Creek, Leal and Parshall. The Jones Pass tunnel, owned by the City of Denver, began diverting water from Williams Fork River into Clear Creek in May, 1940.

During the biennium, a total of 4,362 discharge measurements of stream flow, and 1,255 measurements of canal diversions were made. In addition, 91 measurements were made of wells which were pumped.

Approximately 1,000 Parshall type measuring flumes were installed in ditches and canals throughout the state within the last biennium, under the supervision of the department. The throat widths of these flumes vary in size from 1 to 20 feet. Irrigation Divisions Nos. 1 and 5 lead in the numbers of such installations made within the biennium. Low runoff in recent years has made it imperative that ditch diversions be measured as accurately as possible in the interest of proper administration.

All stream gaging stations are now equipped with the latest models of automatic water stage recording instruments, with ranges sufficient to record all stages of stream flow, and with good shelter houses and cables or bridges, from which high water measurements are made. Through the cooperative agreement between this department and the U. S. Geological Survey, in force since 1934, it has been possible to purchase many new recording instruments, as well as to carry out much reconstruction work for placing the stations in first class condition.

Data on stream flow throughout the state is published in both the water supply papers of the U. S. Geological Survey and the biennial reports of this department, which assures wide distribution of these data to the public.

Measurements of gains and losses in various streams of the state are being made by this department from year to year.

This department continued to cooperate with the Division of Irrigation, Soil Conservation Service, U. S. Department of Agriculture, and other federal agencies in collecting data on snow conditions at 93 snow courses throughout the state. Observations are taken on the first of February, March, April and May,

on the depth of snow and the water content thereof. These records now cover a period of six years. Comparisons of these data with records of resulting runoff, it is anticipated, will provide the basis for predetermining future runoff based upon observations of snow cover. For many snow courses, these forecasts have been reasonably reliable, and should become more valuable as the years of record are extended. The principal difficulty in making reliable predictions of runoff, based upon snow measurements, is the impossibility of anticipating temperature conditions and air currents after April 1st, which have a profound effect upon resulting runoff.

Under the cooperative agreement between this department and the U. S. Geological Survey, a total of about \$111,000 was expended from state and federal appropriations exclusively on stream gaging work in the state during the last fiscal period. Of this sum, \$55,510 came out of state appropriations. This amount represents 42 per cent of the total state appropriations for this department for the biennium.

CHAPTER X.

DESCRIPTIONS OF
STREAM GAGING STATIONS
AND
TABLES OF STREAM DISCHARGES
FOR
WATER YEARS 1939 AND 1940

All stream gaging stations in this state are maintained by the State Engineer of Colorado in cooperation with the United States Geological Survey.

The majority of the stream measurements in the Colorado River and North Platte River basins were made by the U. S. G. S. while all work in the Arkansas, Rio Grande and South Platte River basins was done by the State Engineer's office.

The following agencies also cooperated with the State Engineer in this work:

State of Nebraska

State of New Mexico

U. S. Army Engineers

U. S. Bureau of Reclamation

U. S. Forest Service

Municipalities of Denver, Loveland, Grand Junction

Arkansas Valley Ditch Association

Rio Grande Water Users Association

Uncompahgre Valley Water Users Association

Del Norte, Terrace and Trinchera Irrigation Districts

Public Service Company of Colorado

Western Colorado Power Company

RELATED RUNOFF IN PERCENTAGE OF THE NORMAL
FOR STREAMS IN COLORADO

| Stream | Years of Record | Mean Ac. Ft. | 1939 % | 1940 % |
|---|--------------------|-----------------|-----------|-----------|
| Animas River at Durango..... | 42 | 646,180 | 65 | 56 |
| Arkansas River at Canon City..... | 53 | 522,100 | 80 | 46 |
| Bear Creek at Morrison..... | 21 | 41,620 | 72 | 33 |
| Big Thompson River below Power House near Drake..... | 12 | 111,440 | 76 | 69 |
| Blue River at Dillon..... | 30 | 87,230 | 87 | 56 |
| Boulder Creek near Orodell..... | 34 | 68,650 | 79 | 70 |
| Cache la Poudre River at Canon..... | 57 | 306,310 | 68 | 55 |
| Clear Creek near Golden..... | 31 | 177,030 | 77 | 63 |
| Colorado River at Glenwood Springs..... | 41 | 2,161,980 | 79 | 61 |
| Conejos River near Mogote..... | 38 | 271,180 | 63 | 57 |
| Dolores River at Dolores..... | 31 | 319,670 | 59 | 68 |
| †Fraser River at West Portal..... | 30 | 31,319 | 79 | 69 |
| La Plata River at Hesperus..... | 26 | 34,240 | 49 | 58 |
| Laramie River near Jelm, Wyoming..... | 32 | 123,210 | 60 | 68 |
| Little Snake River at Lily Park..... | 20 | 458,700 | 64 | 57 |
| North Platte River near Northgate..... | 27 | 355,640 | 56 | 44 |
| Purgatoire River at Trinidad..... | 33 | 65,310 | 59 | 52 |
| Rio Grande River near Del Norte..... | 51 | 690,890 | 80 | 43 |
| †Roaring Fork River at Glenwood Springs. | 34 | 1,094,820 | 73 | 56 |
| Saguache Creek near Saguache..... | 31 | 55,370 | 85 | 35 |
| South Boulder Creek at Eldorado Springs.. | 48 | 55,250 | 70 | 58 |
| *South Platte River at South Platte..... | 49 | 266,480 | 85 | 41 |
| St. Vrain Creek at Lyons..... | 51 | 97,980 | 65 | 55 |
| White River near Meeker..... | 37 | 462,520 | 80 | 78 |
| White River near Watson, Utah..... | 19 | 550,740 | 80 | 70 |
| Yampa River at Steamboat Springs..... | 35 | 352,740 | 84 | 74 |
| Yampa River near Maybell..... | 30 | 1,198,540 | 77 | 71 |
| State Average..... | | | 72 | 58 |

NOTE: The mean in acre feet is based on all available years of record as shown in first column, including the year 1940.

*Corrected for storage.

†Corrected for transmountain diversion.

PLATTE RIVER BASIN

SOUTH PLATTE RIVER ABOVE ELEVEN MILE CANON RESERVOIR NEAR HARTSEL, COLORADO

Location—Water stage recorder in Sec. 32, T. 12 N., R. 73 W., 250 feet below highway from Hartsel to Guffey, one mile above high water line of Eleven Mile Canon Reservoir and 13 miles southeast of Hartsel. 20-foot Parshall flume installed at this station in October, 1940.

Records Available—May 27, 1939, to September 30, 1940.

Maximum discharge observed during period 1939-40, 608 second feet, September 9, 1940. Gage height 3.25 feet.

Maximum Discharge—Year 1939; 350 second feet, June 1, 1939. Gage height 2.30 feet.

Maximum Discharge—Year 1940; 608 second feet, September 9, 1940. Gage height 3.25 feet.

Accuracy—Records considered good. No record during winter.

Diversions for storage and irrigation above station. Flow regulated by Antero Reservoir; capacity 33,000 acre-feet.

SOUTH PLATTE RIVER NEAR LAKE GEORGE, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 21, T. 13 S., R. 72 W., 1 $\frac{1}{2}$ miles downstream from Eleven Mile Canon Reservoir and 8 miles upstream from Lake George. Concrete 15-foot Parshall flume installed in river 800 feet below reservoir outlet and below spillway, October, 1940.

Drainage Area—929 square miles. Zero of gage is 8,423.95 feet above mean sea level.

Records Available—October 1, 1929, to September 30, 1940. Station located at Lake George, 8 miles downstream, from October, 1910, to September, 1929.

Maximum discharge observed during period 1930-40; 990 second feet, August 15, 1930. Gage height 4.80 feet.

Maximum Discharge—Year 1939; 384 second feet, June 1, 1939. Gage height 2.83 feet.

Maximum Discharge—Year 1940; 169 second feet, May 18, 1940. Gage height 2.01 feet.

Accuracy—Records considered good.

Diversions for storage and irrigation above station. Flow regulated by Antero and Eleven Mile Canon Reservoirs; capacity 33,000 and 80,000 acre-feet, respectively.

SOUTH PLATTE RIVER ABOVE LAKE CHEESMAN,
COLORADO

Location—Water stage recorder in Sec. 22, T. 10 S., R. 71 W., at weir $\frac{1}{2}$ mile above highwater line of Lake Cheesman.

Drainage Area—1,680 square miles. Zero of gage is 6,845.86 feet above mean sea level.

Records Available—October 1, 1924, to September 30, 1940.

Maximum discharge observed during period 1924-40; 3030 second feet, August 6, 1936. Gage height 5.30 feet.

Maximum Discharge—Year 1939; 768 second feet, June 2, 1939. Gage height 2.54 feet.

Maximum Discharge—Year 1940; 329 second feet, May 19, 1940. Gage height 1.82 feet.

Accuracy—Records considered excellent except those for June 15 and 16, 1939, and during winter period; and November 8-31; March 21-April 2, 1940, and June 25-29, which were estimated and are fair.

Diversions for storage and irrigation above station. Flow regulated by two reservoirs above station; total capacity of 115,000 acre-feet.

SOUTH PLATTE RIVER BELOW LAKE CHEESMAN,
COLORADO

Location—Water stage recorder in Sec. 6, T. 10 S., R. 70 W., $\frac{1}{4}$ mile downstream from Lake Cheesman.

Drainage Area—1,766 square miles. Zero of gage is 6,610.38 feet above mean sea level.

Records Available—October 1, 1924, to September 30, 1940. Acre-foot estimates 1909 to date.

Maximum discharge observed during period 1924-40; 1630 second feet, June 25, 1936. Gage height 6.40 feet.

Maximum Discharge—Year 1939; 728 second feet, June 2, 1939. Gage height 4.58 feet.

Maximum Discharge—Year 1940; 556 second feet, June 24, 1940. Gage height 4.08 feet.

Accuracy—Records considered good except those for November 7, 1938, to March 30, 1939, which were computed on basis of 4 discharge measurements and discharge records at reservoir, and are fair.

Diversions for storage and irrigation above station. Flow regulated by three reservoirs, total capacity 194,000 acre-feet.

NORTH FORK OF SOUTH PLATTE RIVER AT SOUTH
PLATTE, COLORADO

Location—Water stage recorder in Sec. 25, T. 7 S., R. 70 W., one-third of a mile west of South Platte.

Drainage Area—484 square miles. Zero of gage is 6,090.55 feet above mean sea level.

Records Available—January 4, 1909, to September 30, 1910; April 1, 1913, to September 30, 1940.

Maximum discharge observed during period 1909-40; 1910 second feet, June 8, 1921. Gage height 5.90 feet.

Maximum Discharge—Year 1939; 543 second feet, June 1, 1939. Gage height 3.57 feet.

Maximum Discharge—Year 1940; 232 second feet, June 1, 1940. Gage height 2.85 feet.

Accuracy—Records considered good. Records for period of ice effect November 7-9, 20, 1938, December 23, 1938, to March 22, 1939, were computed on basis of 3 discharge measurements and temperature records, and those for period of ice effect October 13, 1939, to March 21, 1940, were computed on basis of 5 discharge measurements, weather records and comparison with South Platte River at South Platte.

Diversions for irrigation above station.

SOUTH PLATTE RIVER AT SOUTH PLATTE, COLORADO

Location—Water stage recorder in Sec. 25, T. 7 S., R. 70 W., at South Platte, 375 feet downstream from mouth of North Fork of South Platte River.

Drainage Area—2,550 square miles. Zero of gage is 6,078.46 feet above mean sea level.

Records Available—March 28, 1902, to September 30, 1940.

Maximum discharge observed during period 1902-40; 6320 second feet, June 7, 1921. Gage height 9.95 feet.

Maximum Discharge—Year 1939; 1100 second feet, May 28, 1937. Gage height 3.85 feet.

Maximum Discharge—Year 1940; 1150 second feet, September 3, 1940. Gage height 3.91 feet.

Accuracy—Records considered good. Discharge for period of ice effect from December 23, 1938, to March 20, 1939, and those for period from November 13, 1939, to March 21, 1940, computed on basis of 4 discharge measurements and comparison with North Fork and Waterton stations, measurements and records for station below Cheesman Reservoir, plus estimated inflow.

Diversions for irrigation above station. Flow regulated by three reservoirs; capacity 194,000 acre-feet.

SOUTH PLATTE RIVER AT WATERTON, COLORADO

Location—Water stage recorder in Sec. 34, T. 6 S., R. 69 W., 200 feet east of highway bridge at pipe line crossing from Platte Canon Reservoir to filter beds and one-half mile south of Water-

ton. Waste from Platte Canon Reservoir enters immediately above station.

Drainage Area—2,621 square miles. Zero of gage is 5,484.44 feet above mean sea level.

Records Available—May 1, 1926, to September 30, 1940.

Maximum discharge observed during period 1926-40; 2670 second feet, August 12, 1936. Gage height 3.10 feet.

Maximum Discharge—Year 1939; 876 second feet, May 26, 1939. Gage height 2.37 feet.

Maximum Discharge—Year 1940; 576 second feet, August 23, 1940. Gage height 1.86 feet.

Accuracy—Records good except those for period of ice effect January 3, 1939, to March 8, and January 12, 1940, to February 14, 1940, which were computed on basis of 2 discharge measurements, weather records, and are fair.

Diversions for irrigation above station. Flow regulated by three storage reservoirs above station; capacity 194,000 acre-feet.

SOUTH PLATTE RIVER AT DENVER, COLORADO

Location—Water stage recorder at 19th Street Bridge in Denver, $\frac{1}{4}$ mile downstream from mouth of Cherry Creek. Waste water from Farmers and Gardeners Ditch enters river above station.

Drainage Area—3,840 square miles. Zero of gage is 5,162.16 feet above mean sea level.

Records Available—May 7, 1895, to September 30, 1940. Station maintained between 15th and 16th Street bridges prior to August 29, 1931. Records comparable.

Maximum discharge observed during period 1902-40; 22,000 second feet, September 10, 1933. Gage height 10.98 feet.

Maximum Discharge—Year 1939; 4790 second feet, March 10, 1939. Gage height 5.10 feet.

Maximum Discharge—Year 1940; 2480 second feet, September 10, 1940. Gage height 4.14 feet.

Accuracy—Records considered good except those for periods of ice effect January 2-15, 1939, and November 30 to December 21, 1939; January 18-21, 25-27, 1940, which were computed on weather records, and comparison of records for South Platte at Henderson, and are fair.

Diversions for irrigation above station.

SOUTH PLATTE RIVER AT HENDERSON, COLORADO

Location—Water stage recorder in Sec. 34, T. 1 S., R. 67 W., $\frac{1}{4}$ mile west of Henderson and just below highway bridge.

Drainage Area—4,740 square miles. Altitude, 5,000 feet above mean sea level.

Records Available—May 1, 1926, to September 30, 1940.

Maximum discharge observed during period 1926-40; 5,730 second feet, March 11, 1939. Gage height 7.20 feet.

Maximum Discharge—Year 1939; 5730 second feet, March 11, 1939. Gage height 7.20 feet.

Maximum Discharge—Year 1940; 2,410 second feet, July 3, 1940. Gage height 4.83 feet.

Accuracy—Records considered fair. Those for ice effect period January 21, 1939, to February 29, March 9-13, which were computed on basis of 2 discharge measurements and weather records, and during period of missing gage heights April 16-24, which were estimated, and those for January 6-10, 1940, January 13 and January 16 to February 3, computed on basis of discharge measurements, weather records, and comparison South Platte at Denver and Ft. Lupton.

Diversions for irrigation above station.

SOUTH PLATTE RIVER AT FORT LUPTON, COLORADO

Location—Water stage recorder in Sec. 6, T. 1 N., R. 66 W., at west edge of Fort Lupton and 600 feet upstream from highway bridge. Prior to June 20, 1935, water stage recorder at site $\frac{1}{4}$ mile downstream and at different datum.

Drainage Area—5,070 square miles. Altitude 4,900 feet above mean sea level.

Records Available—May 10 to September 15, 1906, April 29, 1929, to September 30, 1940.

Maximum discharge observed during period 1906; 1929-40; 5,030 second feet, March 11, 1939. Gage height 5.59 feet.

Maximum Discharge—Year 1939; 5,030 second feet, March 11, 1939. Gage height 5.59 feet.

Maximum Discharge—Year 1940; 1,880 second feet, July 3, 1940. Gage height 3.99 feet.

Accuracy—Records considered good except those for period of ice effect, January 6-12 and January 15-31, 1940, which were computed on basis of one discharge measurement and weather records, and are fair.

Diversions for irrigation above station.

SOUTH PLATTE RIVER NEAR KERSEY, COLORADO

Location—Water stage recorder in Sec. 9, T. 5 N., R. 64 W., at highway bridge $1\frac{3}{4}$ miles north of Kersey. Cache la Poudre River enters 2.5 miles above station.

Drainage Area—9,500 square miles. Altitude, 4,600 feet above mean sea level.

Records Available—April 27, 1901, to October 31, 1903;

March 1, 1905, to November 20, 1912; January 1, 1914, to September 30, 1940.

Maximum discharge observed during period 1901-3; 1905-40, 31,000 second feet, June 7, 1921.

Maximum Discharge—Year 1939; 4,160 second feet, March 12, 1939. Gage height 6.59 feet.

Maximum Discharge—Year 1940; 1,670 second feet, July 4, 1940. Gage height 4.73 feet.

Accuracy—Records considered fair except those for period of ice effect from February 9 to February 14, 1939, which were computed on basis of weather records.

Diversions for irrigation above station.

SOUTH PLATTE RIVER AT SUBLETTE, COLORADO

Location—Water stage recorder in Sec. 14, T. 4 N., R. 61 W., just downstream from highway bridge and 1,000 feet south of Sublette.

Drainage Area—12,900 square miles.

Records Available—April 19, 1926, to September 30, 1940.

Maximum discharge observed during period 1926-40; 8,090 second feet, April 23, 1926. Gage height 5.80 feet. Highest discharge known about 30,000 second feet, June 7, 1921.

Maximum Discharge—Year 1939; 4,740 second feet, March 13, 1939. Gage height 6.30 feet.

Maximum Discharge—Year 1940; 782 second feet, July 5, 1940. Gage height 2.57 feet.

Accuracy—Records considered good except those for period of ice effect, December 12-30, 1938; March 11-13, 22-25, 1939, which were estimated and are fair. Discharge for May 18 and 19; September 19-22, 1939; computed on basis of range in stage on recorder chart and by comparison with South Platte at Kersey and diversions and weather records, and are fair.

Diversions for storage and irrigation above station.

SOUTH PLATTE RIVER AT BALZAC, COLORADO

Location—Water stage recorder in Sec. 13, T. 5 N., R. 55 W., at Balzac siding $1\frac{1}{4}$ miles northeast of Union. Two recording gages on two channels.

Drainage Area—17,700 square miles. Zero of gage is 4,090.99 feet above mean sea level.

Records Available—January, 1917, to September 30, 1940.

Maximum discharge observed during period 1917-40; May 31, 1935. Gage height 11.43 feet; discharge not determined.

Maximum Discharge—Year 1939; 11,300 second feet, March 12, 1939. Gage height 7.80 feet.

Maximum Discharge—Year 1940; 1,100 second feet, September 11, 1940.

Accuracy—Records considered good. During period July 30, 1940, to September 30, 1940, when beaver constructed dam in small channel No. 2, discharge computed by gage heights and measurements and comparison with record on other channel.

Diversions for storage and irrigation above station.

SOUTH PLATTE RIVER AT JULESBURG, COLORADO

Location—Water stage recorder in Sec. 33, T. 12 N., R. 44 W., at highway bridge one-half mile east of Julesburg, Colorado, and four miles above the Colorado-Nebraska state line. (Three water stage recorders) Datum lowered 1.00 foot June 30, 1940. (On Channel No. 2.)

Drainage Area—20,600 square miles. Zero of gage 3,446.76 feet above mean sea level.

Records Available—April 2, 1902, to November 16, 1906; May 12, 1908, to November 30, 1912; April 8, 1914, to September 30, 1940.

Maximum discharge observed during period 1902-06; 1908-12; 1914-40; 31,300 second feet, June 2, 1935. Gage heights 8.56 feet.

Maximum Discharge—Year 1939; 9,330 second feet, March 14, 1939.

Maximum Discharge—Year 1940; 349 second feet, March 16, 1940.

Accuracy—Records considered good. They represent flow passing Colorado-Nebraska state line.

Diversions for irrigation above station.

TARRYALL CREEK NEAR LAKE GEORGE, COLORADO

Location—Water stage recorder in Sec. 22, T. 11 S., R. 72 W., at McLaughlin's ranch eight miles northwest of Lake George, and approximately five miles above the mouth. Cowhead Creek enters from south approximately one mile above.

Drainage Area—460 square miles.

Records Available—October, 1910, to June, 1912; June 19 to October 26, 1916; April 1, 1925, to September 30, 1940.

Maximum discharge observed during period 1910-12, 1916, 1925-1940; 643 second feet, July 31, 1935. Gage height 5.20 feet.

Maximum Discharge—Year 1939; 330 second feet, June 1, 1939. Gage height 3.22 feet.

Maximum Discharge—Year 1940; 346 second feet, September 4, 1940. Gage height 3.24 feet.

Accuracy—Records considered good except those for period of missing gage heights, April 5-6, 8-14, 16-20, 23-27, 30 to May

4, 8, 10, 11, 24, 25, 31 to June 1, 19-22, 1939, and April 17, 1940, which were estimated, and are fair.

Diversions for irrigation above station.

GOOSE CREEK ABOVE LAKE CHEESMAN, COLORADO

Location—Water stage recorder in Sec. 3, T. 10 S., R. 71 W., one mile upstream from high-water line of Lake Cheesman. Sharp crested weir.

Drainage Area—86 square miles. Altitude, 6,835 feet above mean sea level.

Records Available—October, 1924, to September 30, 1940. Acre-foot estimates 1909 to date.

Maximum discharge observed during period 1924-40; 360 second feet (daily mean), May 27, 1926.

Maximum Discharge—Year 1939; 150 second feet, April 29, 1939. Gage height 2.48 feet.

Maximum Discharge—Year 1940; 111 second feet, May 21, 1940. Gage height 2.12 feet.

Accuracy—Records considered good in 1939 except those for April 1-3, 15-16, 1939, June 8, 9, July 1, 21, 25-29, August 1-5, 14-18, 29, 30, September 3-4, 29-30, 1939, which were estimated, and are fair. Records excellent for 1940, except during ice period November 11-30, 1939, which are fair.

BEAR CREEK AT MORRISON, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 35, T. 4 S., R. 70 W., just upstream from main Turkey Creek Canon highway bridge, at Morrison. Mount Vernon Creek enters $\frac{1}{4}$ mile downstream. From October, 1919, to September, 1934, water stage recorder at Idledale, three miles above; records comparable.

Drainage Area—165 square miles. Zero of gage is 5780.56 feet above mean sea level.

Records Available—April, 1888, to September, 1891; May, 1895, to March, 1902; October, 1919, to September 30, 1940.

Maximum discharge observed during period 1888-91, 1895-1902, 1919-40; 8,600 second feet (slope area) July 24, 1896. Gage height 10.90 feet.

Maximum Discharge—Year 1939; 295 second feet, October 1, 1937. Gage height 3.49 feet.

Maximum Discharge—Year 1940, 615 second feet, August 25, 1940. Gage height 3.65 feet.

Accuracy—Records considered fair except for period of ice effect November 12, 1938, to January 26, 1939, January 31, February 1, 6-19, 23, 1939, which were computed on basis of discharge measurements and weather records. Discharge estimated June 26, to July 1, 1940, on basis daily observations.

Small diversions for irrigation above station.

BEAR CREEK AT MOUTH AT SHERIDAN JUNCTION, COLORADO

Location—Water stage recorder in Sec. 5, T. 5 S., R. 68 W., one-half mile southwest of Sheridan Junction and three-fourths mile above mouth.

Drainage Area—265 square miles.

Records Available—April 1 to November 30, 1914; February 23, 1927, to September 30, 1940.

Maximum discharge observed during period 1914, 1927-40; 3000 second feet (slope measurement), July 7, 1933. Gage height 6.95 feet.

Maximum Discharge—Year 1939; 141 second feet, April 16, 1939. Gage height 3.17 feet.

Maximum Discharge—Year 1940; 690 second feet, August 25, 1940. Gage height 5.46 feet.

Accuracy—Records considered fair except for periods of ice effect February 12, 1939, and December 24-26, 1939, to February 8, 1940, which were computed on basis of discharge measurements and weather records.

Diversions for storage and irrigation above station.

CHERRY CREEK NEAR FRANKTOWN, COLORADO

Location—Water stage recorder in Sec. 15, T. 8 S., R. 66 W., at mouth of Wildcat Canon 1.9 miles above Franktown. Russellville Gulch enters from right one mile below. Ruins of Castlewood dam 1.5 miles upstream.

Drainage Area—172 square miles.

Records Available—November 21, 1939, to September 30, 1940.

Maximum discharge observed during period 1939-40; 2300 second feet, June 6, 1940. Gage height 2.60 feet.

Maximum Discharge—Year 1940; 2300 second feet, June 6, 1940. Gage height, 2.60 feet.

Accuracy—Records considered fair. Records for period of ice effect December 18-21, 27-29, 1939; January 11 to February 23, 1940, were computed on basis of 3 discharge measurements and weather records.

Small diversions for irrigation above station.

CHERRY CREEK NEAR MELVIN, COLORADO

Location—Water stage recorder in Sec. 18, T. 5 S., R. 66 W., $\frac{1}{4}$ mile below South Cherry Creek and $1\frac{1}{2}$ miles northeast of Melvin. Kenwood flood control dam located 4 miles downstream. To reach station, turn into ranch $\frac{1}{2}$ mile north of South Cherry Creek bridge on Parker road.

Drainage Area—369 square miles. Zero of gage is 5,608.96 feet above mean sea level.

Records Available—November 23, 1939, to September 30, 1940.

Maximum Discharge—Year 1940; 4500 second feet, September 6, 1940. Gage height 4.38 feet.

Accuracy—Records considered fair. Discharge for period of ice effect January 6, 8-26, computed on basis of one discharge measurement and weather records.

Diversions for irrigation above station.

CLEAR CREEK NEAR GOLDEN, COLORADO

Location—Water stage recorder in Sec. 32, T. 3 S., R. 70 W., $1\frac{1}{2}$ miles above Golden. Welch Ditch diverts water above station. Beaver Creek enters from south, approximately three miles upstream.

Drainage Area—392 square miles. Altitude, 5,620 feet above mean sea level.

Records Available—December 4, 1908, to December 31, 1909; June to September, 1911; January 26, 1912, to September 30, 1940.

Maximum discharge observed during period 1908-09, 1911-40; 5,890 second feet, September 9, 1933, by slope area method. Gage height 7.97 feet. Maximum discharge known, 8,700 second feet, August 1, 1888.

Maximum Discharge—Year 1939; 916 second feet, May 23, 1939. Gage height 2.16 feet.

Maximum Discharge—Year 1940; 1110 second feet, July 28, 1940. Gage height 2.34 feet.

Accuracy—Records considered fair. Those for periods of ice effect November 14, 1938, to March 14, 1939; November 21, 1939, to March 19, 1940, were computed on basis of 4 discharge measurements and weather records.

Diversions for irrigation above station.

CLEAR CREEK AT MOUTH NEAR DERBY, COLORADO

Location—Water stage recorder in Sec. 35, T. 2 S., R. 68 W., $\frac{3}{4}$ mile above mouth and $2\frac{1}{4}$ miles west of Derby.

Drainage Area—600 square miles.

Records Available—April 1, 1914, to November 30, 1914; February 25, 1927, to September 30, 1940.

Maximum discharge observed during period 1914, 1927-40; 3,650 second feet, ~~May 30~~^{September 30}, 1938. Gage height 4.04 feet.

Maximum Discharge—Year 1939; 588 second feet, June 6, 1939. Gage height 3.77 feet.

Maximum Discharge—Year 1940; 918 second feet, September 21, 1940. Gage height 4.29 feet.

Accuracy—Records considered fair. Discharge for ice effect period December 16-23, 1938; January 10, 12, 15, 17 to February 15, 1939, computed on basis two discharge measurements. Period from April 30 to May 14, 1939, estimated on basis one discharge measurement, and from August 14-17 estimated. From January 6 to February 22, 1940, records computed on basis of two discharge measurements and weather records. Those for March 12-15, May 22-25, 1940, were estimated.

Diversions for irrigation above station.

SOUTH BOULDER CREEK NEAR ELDORADO SPRINGS, COLORADO

Location—Water stage recorder in Sec. 26, T. 1 S., R. 71 W., $1\frac{1}{4}$ miles west of Eldorado Springs and 1 mile above Community Dam.

Drainage Area—114 square miles.

Records Available—May 15, 1895, to September 30, 1901; July 1, 1904, to September 30, 1940. Station maintained at Marshall 4 miles below, from 1895-1901, and at Eldorado Springs 1904-29. All records were corrected for diversions before publishing, making them comparable.

Maximum discharge observed during period 1888-92, 1895-1901, 1904-1940; 7,390 second feet, September 2, 1938. Gage height 9.24 feet.

Maximum Discharge—Year 1939; 540 second feet, June 1, 1939. Gage height 3.22 feet.

Maximum Discharge—Year 1940; 688 second feet, July 28, 1940. Gage height 4.43 feet.

Accuracy—Records considered good except those for periods of ice effect, November 29, 1938, to April 4, 1939, and November 27, 1939, to March 21, 1940, which were computed on basis of 4 discharge measurements and weather records, and are fair.

Diversions for irrigation above station. Water from Moffat Tunnel trans-mountain diversion diverted approximately $1\frac{1}{2}$ miles above station. Some of this water passes station. See Fraser River station at Granby for amounts diverted from Colorado River basin into this drainage basin.

MIDDLE BOULDER CREEK, AT NEDERLAND, COLORADO

Location—Water stage recorder in Sec. 13, T. 1 S., R. 73 W., at inlet to Barker Meadow Reservoir below mouth of North Beaver Creek and just east of Nederland. (Sharp crested weir.)

Drainage Area—38 square miles. Altitude, 8,180 feet above mean sea level.

Records Available—January, 1908, to September 30, 1940.

Complete records furnished by Public Service Company of Colorado.

BOULDER CREEK NEAR ORODELL, COLORADO

Location—Water stage recorder in Sec. 34, T. 1 N., R. 71 W., $\frac{1}{4}$ mile below Public Service Power House, and 1 mile above old Orodell station. Four Mile Creek enters from north, 1 mile below station.

Drainage Area—105 square miles. Altitude, 5,800 feet above mean sea level.

Records Available—August, 1887, to October, 1888; March, 1907, to December, 1914; February, 1916, to September 30, 1940. Prior to 1917, station maintained just above mouth of Four Mile Creek, 1 mile downstream.

Maximum discharge observed during period 1887-88, 1907-14, 1916-1940; 2,500 second feet, June 6, 1921. Gage height 4.31 feet.

Maximum Discharge—Year 1939; 425 second feet, May 31, 1939. Gage height 3.01 feet.

Maximum Discharge—Year 1940; 490 second feet, September 21, 1940. Gage height 3.15 feet.

Accuracy—Records considered good.

Diversions for storage above station. Flow regulated by Barker Meadow Reservoir; capacity 11,500 acre-feet. Low water flow regulated by operation of power plant $\frac{1}{4}$ mile above station.

BOULDER CREEK AT MOUTH NEAR LONGMONT,
COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$, Sec. 17, T. 2 N., R. 68 W., $1\frac{1}{2}$ miles upstream from mouth and 5 miles southeast of Longmont.

Drainage Area—512 square miles.

Records Available—March 16, 1927, to September 30, 1940.

Maximum discharge observed during period 1927-40; 4,410 second feet, September 3, 1938. Gage height 6.94 feet.

Maximum Discharge—Year 1939; 390 second feet, April 24, 1939. Gage height 3.23 feet.

Maximum Discharge—Year 1940; 111 second feet, July 3, 1940. Gage height 2.34 feet.

Accuracy—Records considered fair except those for periods of ice effect December 11, 1938, to April 5, 1939, and December 23, 1939, to March 7, 1940, each computed on basis of 4 and 3 discharge measurements and weather records, and are fair.

Diversions for storage and irrigation above station.

NORTH ST. VRAIN CREEK AT LONGMONT DAM,
NEAR LYONS, COLORADO

Location—Water stage recorder in Sec. 16, T. 3 N., R. 71 W., $\frac{3}{4}$ of a mile upstream from Longmont Dam, and 4 miles west of Lyons. City of Longmont pipe line diverts water below station.

Drainage Area—109 square miles. Altitude, 6,080 feet above mean sea level.

Records Available—1913 to 1917 (partial records); June 1, 1926, to September 30, 1940.

Maximum discharge observed during period 1926-40; 972 second feet, September 2, 1938. Gage height 4.34 feet.

Maximum Discharge—Year 1939; 356 second feet, June 6, 1939. Gage height 3.10 feet.

Maximum Discharge—Year 1940; 319 second feet, June 21, 1940. Gage height 3.04 feet.

Accuracy—Records considered good.

Diversions for storage above station.

ST. VRAIN CREEK AT LYONS, COLORADO

Location—Water stage recorder in Sec. 17, T. 3 N., R. 70 W., 300 feet downstream from junction of North and South St. Vrain Creeks, and $\frac{3}{4}$ mile east of Lyons.

Drainage Area—226 square miles. Altitude, 5,349 feet above mean sea level.

Records Available—August 1, 1887, to October 31, 1890; June 13, 1895, to October 31, 1903; July 1, 1904, to September 30, 1940.

Maximum discharge observed during period 1887-90, 1895-1903, 1904-40; 9,400 second feet, July 30, 1919. Gage height 7.90 feet (from flood marks) slope-area meas.

Maximum Discharge—Year 1939; 978 second feet, August 30, 1939. Gage height 3.82 feet.

Maximum Discharge—Year 1940; 675 second feet, May 27, 1940. Gage height 3.57 feet.

Accuracy—Records considered good.

Diversions for storage and irrigation above station. Several reservoirs partly regulate flow.

ST. VRAIN CREEK AT MOUTH NEAR PLATTEVILLE, COLORADO

Location—Water stage recorder in Sec. 3, T. 3 N., R. 67 W., at highway bridge 1 mile upstream from mouth and 4 miles northwest of Platteville.

Drainage Area—1,000 square miles.

Records Available—April to December 31, 1915; February 24, 1927, to September 30, 1940.

Maximum discharge observed during period 1915, 1927-40; 8,360 second feet September 3, 1938. Gage height 8.93 feet.

Maximum Discharge—Year 1939; 595 second feet, May 2, 1939. Gage height 3.12 feet.

Maximum Discharge—Year 1940; 1,420 second feet, July 3, 1940. Gage height 4.33 feet.

Accuracy—Records considered good except those for period of missing gage heights, November 11, 1938, and those for periods of ice effect, November 23-27, 1938; December 11, 1938, to January 4, 1939; January 15-18; February 2 to March 8, 1939; and December 27, 1939, to February 12, 1940, which were computed on basis of discharge measurements and weather records, and which are fair.

Diversions for irrigation above station.

LEFTHAND CREEK AT MOUTH AT LONGMONT, COLORADO

Location—Water stage recorder in Sec. 10, T. 2 N., R. 69 W., $\frac{3}{4}$ mile above mouth and 1 mile south of Longmont. Datum lowered 2.33 feet April 19, 1938.

Drainage Area—74 square miles. Altitude, 4,990 feet above mean sea level.

Records Available—March 1, 1927, to September 30, 1940.

Maximum discharge observed during period 1927-40; 812 second feet, September 2, 1938. Gage height 6.10 feet.

Maximum Discharge—Year 1939; 66 second feet, May 1, 1939. Gage height 1.93 feet.

Maximum Discharge—Year 1940; 36 second feet, September 28, 1940. Gage height 1.55 feet.

Accuracy—Records considered fair. Discharge for periods of ice effect December 10, 1938, to April 7, 1939, and December 24 to March 7, 1940, were computed on basis of 4 discharge measurements, and weather records; those for November 24-29, 1938, May 12-16, June 1-2, 12-16, 1938, were estimated.

Diversions for irrigation above station.

BIG THOMPSON RIVER NEAR ESTES PARK, COLORADO

Location—Water stage recorder in Sec. 29, T. 5 N., R. 72 W., $1\frac{1}{2}$ miles east of Estes Park.

Drainage Area—158 square miles. Altitude, 7,424 feet above mean sea level.

Records Available—June, 1930, to September 30, 1940 (Prior to February, 1934, station was maintained $1\frac{1}{2}$ miles downstream. Records comparable.)

Maximum discharge observed during period 1930-40; 1,590 second feet, June 16, 1935. Gage height 5.54 feet.

Maximum Discharge—Year 1939; 665 second feet, June 1, 1939. Gage height 3.70 feet.

Maximum Discharge—Year 1940; 612 second feet, June 3, 1940. Gage height 3.62 feet.

Accuracy—Records considered excellent except for periods of ice effect November 7, 1938, to April 5, 1939; and November 13 to April 11, 1940, computed on basis of 5 discharge measurements each period and weather records, and those for August 14, 22, 29; September 11-12, 1940 (estimated), which are good.

Diversions for irrigation above station.

BIG THOMPSON RIVER BELOW POWER HOUSE NEAR DRAKE, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 7, T. 5 N., R. 70 W., $\frac{1}{4}$ mile below City of Loveland Hydro-electric plant, and $4\frac{1}{2}$ miles east of Drake. Cedar Creek enters $\frac{1}{8}$ mile downstream.

Drainage Area—277 square miles.

Records Available—October 1, 1928, to September 30, 1940. Records comparable at site 3 miles upstream, from September, 1917, to December, 1926.

Maximum discharge observed during period 1929-40; 1,950 second feet, June 14, 1935. Gage height 5.00 feet. Maximum known discharge, estimated, 8,000 second feet July 31, 1919.

Maximum Discharge—Year 1939; 818 second feet, June 1, 1939. Gage height 3.38 feet.

Maximum Discharge—Year 1940; 755 second feet, June 3, 1940. Gage height 3.28 feet.

Accuracy—Records considered good except those for period of missing gage heights October 20-27, 1938, and period of ice effect February 4-5, 9-10, 1939; March 22, 27; June 23-25; July 21-23, 1939, and March 1-5, 1940, which were computed on basis discharge measurements and weather records, and are fair.

Diversions for irrigation above station. City of Loveland furnishes gage height record. Small storage reservoir above power plant; capacity about 30 acre-feet.

BIG THOMPSON RIVER AT MOUTH OF CANYON, NEAR DRAKE, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 10, T. 5 N., R. 70 W., just upstream from mouth of canyon, 450 feet upstream from Handy Dam, $6\frac{1}{2}$ miles east of Drake. From 1917-1933 station was maintained $\frac{1}{2}$ mile upstream; records are equivalent.

Drainage Area—302 square miles.

Records Available—1917-1933; April 19, 1938, to September 30, 1940.

Maximum discharge observed during period 1917-33; 1938-40; 5,600 second feet, September 1, 1938. Gage height 6.60 feet.

Maximum Discharge—Year 1939; 923 second feet, June 1, 1939. Gage height 3.14 feet.

Maximum Discharge—Year 1940; 829 second feet, June 3, 1940. Gage height 2.90 feet.

Accuracy—Records considered good, except those during ice period from November 7, 1938, to March 22, 1939, and from November 18 to March 4, 1940, computed on basis of 4 discharge measurements, weather records and comparison with records for Big Thompson River below power house, and are fair.

Diversions for irrigation above station.

BIG THOMPSON RIVER AT MOUTH NEAR LA SALLE, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 34, T. 5 N., R. 66 W., at first bridge across Big Thompson River, 1 mile above mouth and 4 miles west of La Salle.

Drainage Area—818 square miles.

Records Available—April 1 to November 30, 1914; March 1, 1927, to September 30, 1940.

Maximum discharge observed during period 1914, 1927-40; 3,000 second feet, September 3, 1938. Gage height 7.31 feet.

Maximum Discharge—Year 1939; 118 second feet, June 29, 1939. Gage height 2.40 feet.

Maximum Discharge—Year 1940; 124 second feet, July 4, 1940. Gage height 2.4 feet.

Accuracy—Records considered fair. Those for period of ice effect December 2, 1936, to January 25, 1939, and those for January 28 to March 18, 1940, computed on basis of discharge measurements and weather records and comparison with record of St. Vrain Creek near Platteville.

Diversions for irrigation above station.

CACHE LA POUDDRE RIVER AT MOUTH OF CANYON NEAR FT. COLLINS, COLORADO

Location—Water stage recorder in Sec. 15, T. 8 N., R. 70 W., at mouth of canyon, 3 miles downstream from intake of Ft. Collins water works, and 11 miles west of Ft. Collins.

Drainage Area—1,048 square miles. Altitude, 5,070 feet above mean sea level.

Records Available—May 15, 1884, to September 30, 1940.

Maximum discharge observed during period 1884-40; 10,200 second feet, May 31, 1930. Gage height 7.90 feet.

Greatest maximum discharge known occurred May 20, 1904; discharge not determined.

Maximum Discharge—Year 1939; 2,580 second feet, June 6, 1939. Gage height 4.35 feet.

Maximum Discharge—Year 1940; 3,510 second feet, August 17, 1940. Gage height 5.00 feet.

Accuracy—Records considered good, except those for period ice effect December 4, 1938, to March 20, 1939 (computed on basis of 3 discharge measurements and weather records), and those for ice effect period December 19, 1939, to March 5, 1940, and for missing gage heights September 21-24, which were computed on above basis, and are fair.

Diversions for storage and irrigation above station; trans-mountain inflow from the Colorado, Michigan and Laramie Rivers above station.

CACHE LA POUDBRE RIVER NEAR MOUTH NEAR GREELEY, COLORADO

Location—Water stage recorder in Sec. 2, T. 5 N., R. 65 W., 2½ miles upstream from mouth at highway bridge and 2 miles east of Greeley.

Drainage Area—1,840 square miles.

Records Available—March 24, 1903, to November 30, 1904; February 1, 1914, to December 17, 1919; and May 27, 1924, to September 30, 1940.

Maximum discharge observed during period 1903-04, 1914-19, 1924-40; 4,240 second feet, June 24, 26, 1917. Gage height 7.30 feet (former site and datum).

Maximum Discharge—Year 1939; 165 second feet, March 11, 1939. Gage height 3.33 feet.

Maximum Discharge—Year 1940; 162 second feet, July 4, 1940. Gage height 3.83 feet.

Accuracy—Records considered good except those for ice effect February 12, March 5, 1939 (computed on basis of 1 discharge measurement and weather records), and those for November 24-25, 1939; and January 20-22, 1940, which were estimated and are fair.

Diversions for irrigation above station.

NORTH FORK OF REPUBLICAN RIVER NEAR WRAY, COLORADO

Location—Water stage recorder in SE¼ NW¼ Sec. 9, T. 1 N., R. 44 W., 2 miles upstream from Chief Creek and 3.3 miles west of Wray.

Records Available—March 23, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-1940; 270 second feet, July 13, 1938. Gage height 9.82 feet.

Maximum Discharge—Year 1939; 84 second feet, July 31, 1939. Gage height 6.66 feet.

Maximum Discharge—Year 1940; 149 second feet, May 17, 1940. Gage height 7.90 feet.

Accuracy—Records considered good except for estimated

period from December 25, 1938, to January 4, 1939; January 10, February 9-10, August 7, September 2, 3, 1939; October 31 to November 6, December 24-25; January 18-25, 1940; March 9-10, July 28, September 2, which are fair.

Small diversions for irrigation above station.

NORTH FORK OF REPUBLICAN RIVER AT COLORADO- NEBRASKA STATE LINE

Location—Water stage recorder in Sec. 10, T. 1 N., R. 42 W., 100 feet east of Colorado-Nebraska state line.

Zero of gage in 3,336.09 feet above mean sea level.

Records Available—March, 1931, to September 30, 1940.

Maximum discharge observed during period 1931-40; 1,220 second feet, September 3, 1940. Gage height 5.72 feet.

Maximum Discharge—Year 1939; 127 second feet, August 1, 1939. Gage height 2.83 feet.

Maximum Discharge—Year 1940; 1,220 second feet, September 3, 1940. Gage height 5.72 feet.

Accuracy—Records considered fair for those periods of ice effect, December 27-30, 1938; February 9-14, 1939 (computed on basis of weather records), and those for periods of missing gage height, October 8, 9, 18, 1938, which were estimated and are fair. Discharge for ice effect period December 23, 1939, to January 1, 1939; January 5-31, 1940, computed on basis of 2 discharge measurements and weather records.

Diversions for irrigation above station.

GRIZZLY CREEK NEAR WALDEN, COLORADO

Location—Water stage recorder in Sec. 29, T. 8 N., R. 80 W., 10 miles south of Walden and $\frac{1}{2}$ mile upstream from junction with Little Grizzly Creek.

Drainage Area—229 square miles.

Records Available—May, 1904, to October, 1905; May to September, 1923; October, 1926, to September 30, 1940.

Maximum discharge observed during period 1904-05, 1923, 1926-40; 1,340 second feet, June 10, 1923. Gage height 4.8 feet.

Maximum Discharge—Year 1939; 486 second feet, May 4, 1939. Gage height 3.70 feet.

Maximum Discharge—Year 1940; 237 second feet, May 5, 1940. Gage height 2.54 feet.

Accuracy—Records considered good except for period of ice effect November 4-7, 1938; and April 16-17, 1939, which were computed on basis of gage heights and weather records and are fair. Discharge for period of ice effect and no gage heights, October 31, 1939, and April 1-13, 1940, computed on basis of 1

discharge measurement and records for North Platte River near Walden. No record during winter.

Diversions for irrigation above station.

LITTLE GRIZZLY CREEK AT MOUTH NEAR HEBRON, COLORADO

Location—Water stage recorder in Sec. 32, T. 8 N., R. 80 W., 1 mile upstream from Junction with Grizzly Creek and 3 miles north of Hebron.

Drainage Area—96 square miles.

Records Available—June, 1940, to October, 1905; June, 1931, to September 30, 1940.

Maximum discharge observed during period 1904-05, 1931-40; 592 second feet, June 11, 1905.

Maximum Discharge—Year 1939; 332 second feet, June 1, 1939. Gage height 3.92 feet.

Maximum Discharge—Year 1940; 403 second feet, June 6, 1940. Gage height 4.24 feet.

Accuracy—Records considered good except those for periods of ice effect April 16-17, 1939, and October 31, 1939; April 1-11, 1940; April 14, 15, 20, 23, 25; and May 3-4, 1940, computed on basis of records for North Platte near Walden and Roaring Fork and Grizzly Creek near Walden, and are fair.

Diversions for irrigation above station.

ROARING FORK NEAR WALDEN, COLORADO

Location—Water stage recorder in Sec. 11, T. 8 N., R. 81 W., at highway bridge 10 miles southwest of Walden.

Drainage Area—84 square miles. Zero of gage is 8,037.44 feet above mean sea level.

Records Available—May, 1904, to October, 1905; October, 1923, to September 30, 1940.

Maximum discharge observed during period 1904-05, 1923-40; 790 second feet, June 15, 1924. Gage height 3.73 feet.

Maximum Discharge—Year 1939; 250 second feet, June 6, 1939. Gage height 2.04 feet.

Maximum Discharge—Year 1940; 426 second feet, June 6, 1940. Gage height 2.95 feet.

Accuracy—Records considered good, except those for periods of ice effect, November 17-22, 28-30, 1939, and April 1-6, 1940, computed on basis of discharge measurements, weather records and comparison with records for North Platte near Walden, and which are fair. No record November 6, 1938, to April 14, 1939, and from December 2, 1939, to March 31, 1940.

Diversions for irrigation above station.

NORTH PLATTE RIVER NEAR WALDEN, COLORADO

Location—Water stage recorder in Sec. 6, T. 8 N., R. 80 W., at highway bridge 8 miles southwest of Walden. Roaring Fork enters above station.

Drainage Area—446 square miles.

Records Available—May 13, 1904, to October 31, 1905; October 1, 1923, to September 30, 1940.

Maximum discharge observed during period 1904-05, 1923-40; 1,940 second feet, April 19, 1938. Gage height 5.74 feet.

Maximum Discharge—Year 1939; 866 second feet, May 4, 1939. Gage height 3.62 feet.

Maximum Discharge—Year 1940; 1,040 second feet, June 7, 1940. Gage height 3.96 feet.

Accuracy—Records considered excellent except those for periods of ice effect, April 16-17, 1939, computed on basis of gage heights and weather records, and those for ice period November 17, 18, 30, 1939, and for period no gage heights, April 1-6, 1940, and are fair.

Diversions for irrigation above station.

NORTH PLATTE RIVER NEAR NORTHGATE,
COLORADO

Location—Water stage recorder in Sec. 11, T. 11 N., R. 80 W., at highway bridge 6 miles south of Colorado-Wyoming state line, and 6 miles northwest of Northgate.

Drainage Area—1,440 square miles. Zero of gage is 7,806.98 feet above mean sea level.

Records Available—May to November, 1904; May, 1915, to September 30, 1940.

Maximum discharge observed during period 1904, 1915-40; 6,720 second feet, June 11, 1923. Gage height 6.24 feet.

Maximum Discharge—Year 1939; 1,720 second feet, June 2, 1939. Gage height 3.13 feet.

Maximum Discharge—Year 1940; 1,720 second feet, June 7, 1940. Gage height 3.17 feet.

Accuracy—Records considered excellent except those for periods of ice effect, November 7, 1938, to April 2, 25-29, 1939; and November 16, 1939, to April 3, 1940, which were computed on basis of 3 discharge measurements for each period, weather records, and records for station at Saratoga, Wyoming, and are fair. Those for June 17-22; July 8-13, 1940, were estimated on above basis.

Diversions for irrigation above station.

NORTH FORK OF NORTH PLATTE RIVER NEAR WALDEN, COLORADO

Location—Water stage recorder in Sec. 29, T. 9 N., R. 80 W., at Erickson ranch, $\frac{1}{4}$ mile upstream from mouth and 7 miles west of Walden.

Drainage Area—168 square miles.

Records Available—October, 1923, to September, 1928; May, 1937, to September 30, 1940.

Maximum discharge observed during period 1923-28, 1937-40; 694 second feet, April 19, 1926. Gage height 2.63 feet, former datum.

Maximum Discharge—Year 1939; 236 second feet, June 1, 1939. Gage height 1.83 feet.

Maximum Discharge—Year 1940; 331 second feet, May 22, 1940. Gage height 2.31 feet.

Accuracy—Records considered good except those for period of back water effect from September 19-30, 1939; computed on basis of 1 discharge measurement, and records for Roaring Fork near Walden. Those for period of ice effect, April 1-7, 1940, and for August 9-18, 1940, computed on same basis, all of which are fair.

Diversions for irrigation above station.

WILLOW CREEK NEAR RAND, COLORADO

Location—Water stage recorder in Sec. 23, T. 6 N., R. 79 W., 2.6 miles northwest of Rand, and $2\frac{1}{2}$ miles above mouth.

Drainage Area—62 square miles.

Records Available—July 10, 1931, to September 30, 1940. (Discontinued.)

Maximum daily discharge observed during period 1931-40; 268 second feet, May 23, 1932.

Maximum Discharge—Year 1939; 116 second feet, June 1, 1939. Gage height 3.10 feet.

Maximum Discharge—Year 1940; 104 second feet, June 6, 1940. Gage height 2.97 feet.

Accuracy—Records considered good except those for period of back water effect from temporary dam, June 16 to July 9, 1939, computed on basis of records for station on Illinois near Rand. Records for April 1-8, 1940; August 28 to September 20, 22, 24, 1940, were computed on above basis and are fair.

Diversion for irrigation above station.

ILLINOIS CREEK NEAR RAND, COLORADO

Location—Water stage recorder in Sec. 30, T. 6 N., R. 78 W., 1 mile north of Rand and $2\frac{1}{2}$ miles above mouth of Willow Creek.

Drainage Area—77 square miles. Zero of gage is 8,550.93 feet above mean sea level.

Records Available—July 11, 1931, to September 30, 1940. (Discontinued.)

Maximum daily discharge observed during period 1931-40; 655 second feet, May 23, 1932.

Maximum Discharge—Year 1939; 277 second feet, June 6, 1939. Gage height 1.61 feet.

Maximum Discharge—Year 1938; 222 second feet, June 3, 1940. Gage height 1.38 feet.

Accuracy—Records considered good except those for ice effect periods, April 17-20, 1938; April 1-8, 1940. April 14-17; June 9-13; August 28 to September 21-22, 1940, computed on basis of discharge measurements and records for Michigan River near Lindland.

Diversions for irrigation above station.

ILLINOIS CREEK AT WALDEN, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 29, T. 9 N., R. 79 W., $\frac{1}{2}$ mile southwest of Walden. Prior to July 1, 1937, station located 350 feet upstream at different datum.

Drainage Area—254 square miles. Zero of gage is 8,038.80 feet above mean sea level.

Records Available—May 1, 1917, to August 31, 1918, and May 1, 1923, to September 30, 1940.

Maximum discharge observed during period 1917-18, 1923-40; 2,520 second feet, May 28, 1926. Gage height 6.40 feet; former site and datum.

Maximum Discharge—Year 1939; 214 second feet, June 2, 1939. Gage height 2.49 feet; former site and datum.

Maximum Discharge—Year 1940; 127 second feet, June 8, 1940. Gage height 1.87 feet.

Accuracy—Records considered fair. Those for periods of missing gage heights, October 30 to November 4, 1939; April 1-6, 1940, were computed on basis of record for North Platte River at Northgate.

Diversions for irrigation above station.

MICHIGAN RIVER NEAR LINDLAND, COLORADO

Location—Water stage recorder in Sec. 21, T. 7 N., R. 77 W., at Cameron Pass highway bridge 3 miles southeast of Lindland, and 1 mile above mouth of North Fork of Michigan River.

Drainage Area—62 square miles. Zero of gage is 8,734.28 feet above mean sea level.

Records Available—July 12, 1931, to September 30, 1940.

Maximum discharge observed during period 1931-40; 663 second feet, June 11, 1933. Gage height 3.08 feet.

Maximum Discharge—Year 1939; 322 second feet, June 5, 1939. Gage height 1.94 feet.

Maximum Discharge—Year 1940; 242 second feet, June 1, 1940. Gage height 1.60 feet.

Accuracy—Records considered good except those for period of ice effect, April 1-8, 12, 13, 1940, computed on basis of North Platte River at Northgate.

Diversions for irrigation above station.

MICHIGAN RIVER AT HAWORTH SCHOOL, NEAR LINDLAND, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 36, T. 8 N., R. 78 W., $\frac{1}{4}$ mile east of Haworth School, and $2\frac{1}{2}$ miles northwest of Lindland.

Drainage Area—114 square miles.

Records Available—May, 1937, to September 30, 1939. (Discontinued.)

Maximum discharge observed during period 1937-39; 580 second feet, June 6, 1938. Gage height 3.50 feet.

Maximum Discharge—Year 1939; 402 second feet, June 6, 1939. Gage height 2.67 feet.

Accuracy—Records considered excellent.

Diversions for irrigation above station.

MICHIGAN RIVER AT WALDEN, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 21, T. 9 N., R. 79 W., $\frac{1}{2}$ mile north of Walden.

Drainage Area—185 square miles. Zero of gage is 8,044.87 feet above mean sea level.

Records Available—May 8, 1904, to October 31, 1905; June 1, 1908, to July 26, 1918; May 1, 1923, to September 30, 1940.

Maximum discharge observed during period 1904-05, 1923-40; 1,070 second feet, June 10, 1923. Gage height 3.3 feet.

Maximum Discharge—Year 1939; 289 second feet, June 2, 1939. Gage height 2.29 feet.

Maximum Discharge—Year 1940; 199 second feet, June 7, 1940. Gage height 2.01 feet.

Accuracy—Records considered good. Record for period missing gage heights, November 2-4, 1939; April 1-10, 1940, computed on basis of record for North Platte River near Northgate.

Diversion for irrigation above station.

MICHIGAN RIVER NEAR COWDREY, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 11, T. 10 N., R. 80 W., 1 mile above mouth and 1 $\frac{1}{2}$ miles west of Cowdrey.

Drainage Area—218 square miles. Zero of gage is 7,878.28 feet above mean sea level.

Records Available—May, 1904, to October, 1905; May, 1937, to September 30, 1940.

Maximum discharge observed during period 1904-05; 1937-40; 925 second feet, April 19, 1938. Gage height 3.40 feet.

Maximum Discharge—Year 1939; 415 second feet, June 3, 1939. Gage height 2.45 feet.

Maximum Discharge—Year 1940; 150 second feet, June 8, 1940. Gage height 2.02 feet.

Accuracy—Records considered good. Those for April 1-5, 1940, computed on basis of record for North Platte River near Northgate and are fair.

Diversions for irrigation above station.

CANADIAN RIVER AT COWDREY, COLORADO

Location—Water stage recorder in Sec. 6, T. 10 N., R. 79 W., 1,000 feet above mouth of Government Creek, and $\frac{1}{2}$ mile north of Cowdrey. Prior to November 15, 1931, recorder 600 feet upstream at different datum. One small diversion between the two sites.

Drainage Area—201 square miles. Zero of gage is 7,869.54 feet above mean sea level.

Records Available—May, 1904, to October, 1905; May, 1929, to September, 1931; and May, 1937, to September 30, 1940.

Maximum daily discharge observed during period 1904-5, 1929-31, 1937-40; 600 second feet, June 10, 1905.

Maximum Discharge—Year 1939; 198 second feet, June 1, 1939. Gage height 3.34 feet.

Maximum Discharge—Year 1940; 134 second feet, June 7, 1940. Gage height 2.96 feet.

Accuracy—Records considered good except for period of ice effect, April 1-9, 1940, computed on basis of 1 discharge measurement and records for North Platte River near Northgate and weather records, and are fair.

Diversions for irrigation above station.

LARAMIE RIVER NEAR GLENDEVEY, COLORADO

Location—Water stage recorder in Sec. 25, T. 10 N., R. 76 W., just below mouth of Nunn Creek, and above Stub Creek at Sholine Ranch, and 1 $\frac{1}{2}$ miles north of present location of Glendevey post office.

Drainage Area—101 square miles.

Records Available—June 24, 1904, to October 31, 1905; August 18, 1910, to September 30, 1940.

Maximum discharge observed during period 1904-05, 1910-40; 2,240 second feet, June 9, 1923.

Maximum Discharge—Year 1939; 392 second feet, June 1, 1939. Gage height 2.90 feet.

Maximum Discharge—Year 1940; 402 second feet, June 18, 1940. Gage height 2.99 feet.

Accuracy—Records considered good, except those for period of ice effect November 1-8, 12-14, 18, 22-30, 1938, and November 15-26, computed on basis of weather records, and are fair.

Diversions for irrigation above station, and two trans-mountain diversions into Cache la Poudre River above station.

LARAMIE RIVER NEAR JELM, WYOMING

Location—Water stage recorder in Sec. 15, T. 12 N., R. 77 W., $\frac{1}{4}$ mile north of Colorado-Wyoming state line and 4 miles south of Old Jelm. Johnson Creek enters $\frac{1}{2}$ mile below station.

Drainage Area—297 square miles. Zero of gage is 7,685.32 feet above mean sea level.

Records Available—June, 1904, to October, 1905; May 7, 1911, to September 30, 1940.

Maximum discharge observed during period 1904-05, 1911-40; 4,200 second feet, June 9, 1923. Gage height 4.15 feet.

Maximum Discharge—Year 1939; 948 second feet, June 1, 1939. Gage height 3.02 feet.

Maximum Discharge—Year 1940; 888 second feet, May 28, 1940. Gage height 2.95 feet.

Accuracy — Records considered excellent. Discharge for periods of ice effect November 5, 1938, to April 5, 1939, computed on basis of 3 discharge measurements and weather records, and those during ice period effect November 16, 1939, to March 29, 1940, which were computed on basis of 3 measurements and weather records, and are fair.

Diversions for irrigation above station.

**Discharge of South Platte River Above 11-Mile Canon Reservoir Near Hartsel, Colo., for
Year Ending Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|--------|------|------|------|-------|
| 1 | | | | | | | | | 318 | 158 | 203 | 43 |
| 2 | | | | | | | | | 315 | 142 | 201 | 42 |
| 3 | | | | | | | | | 210 | 128 | 244 | 34 |
| 4 | | | | | | | | | 130 | 128 | 189 | 29 |
| 5 | | | | | | | | | 152 | 144 | 161 | 28 |
| 6 | | | | | | | | | 174 | 138 | 148 | 27 |
| 7 | | | | | | | | | 208 | 144 | 112 | 27 |
| 8 | | | | | | | | | 179 | 126 | 99 | 30 |
| 9 | | | | | | | | | 186 | 106 | 85 | 34 |
| 10 | | | | | | | | | 156 | 110 | 72 | 33 |
| 11 | | | | | | | | | 177 | 150 | 66 | 30 |
| 12 | | | | | | | | | 205 | 119 | 58 | 30 |
| 13 | | | | | | | | | 148 | 108 | 55 | 30 |
| 14 | | | | | | | | | 132 | 106 | 45 | 30 |
| 15 | | | | | | | | | 170 | 119 | 48 | 30 |
| 16 | | | | | | | | | 165 | 115 | 48 | 29 |
| 17 | | | | | | | | | 146 | 103 | 45 | 28 |
| 18 | | | | | | | | | 134 | 92 | 39 | 27 |
| 19 | | | | | | | | | 117 | 76 | 36 | 25 |
| 20 | | | | | | | | | 95 | 69 | 31 | 24 |
| 21 | | | | | | | | | 86 | 64 | 29 | 22 |
| 22 | | | | | | | | | 95 | 61 | 29 | 22 |
| 23 | | | | | | | | | 92 | 56 | 28 | 22 |
| 24 | | | | | | | | | 94 | 50 | 28 | 23 |
| 25 | | | | | | | | May 27 | 117 | 49 | 27 | 25 |
| 26 | | | | | | | | to 31 | 132 | 69 | 30 | 27 |
| 27 | | | | | | | | | 170 | 117 | 85 | 31 |
| 28 | | | | | | | | | 138 | 119 | 97 | 31 |
| 29 | | | | | | | | | 148 | 119 | 179 | 33 |
| 30 | | | | | | | | | 191 | 138 | 144 | 41 |
| 31 | | | | | | | | | 239 | 203 | 41 | .. |
| Total | | | | | | | | 886 | 4626 | 3438 | 2333 | 840 |
| Mean. | | | | | | | | 177 | 154 | 111 | 75.3 | 21.3 |
| Max. | | | | | | | | 239 | 318 | 203 | 244 | 43 |
| Min. | | | | | | | | 138 | 86 | 49 | 27 | 20 |
| Acre-ft. | | | | | | | | 1760 | 9180 | 6820 | 4630 | 1670 |

Total run-off for period=24,060 acre-feet.

**Discharge of South Platte River Above Eleven Mile Canon Reservoir Near Hartsel, Colorado,
for Year Ending Sept. 30, 1940**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|----------------|------|------|------|------|------------------|--------|-------|------|------|-------|
| 1 | 21 | 19 | | | | | | 13 | 223 | 80 | 28 | 30 |
| 2 | 20 | 15 | | | | | | 12 | 254 | 105 | 25 | 29 |
| 3 | 20 | 15 | | | | | | 12 | 269 | 78 | 23 | 28 |
| 4 | 20 | 16 | | | | | | 7.6 | 285 | 36 | 21 | 28 |
| 5 | 21 | 16 | | | | | | 6.0 | 300 | 19 | 21 | 28 |
| 6 | 20 | 13 | | | | | | 5.5 | 306 | 18 | 22 | 28 |
| 7 | 18 | 12 | | | | | | 5.5 | 285 | 22 | 26 | 28 |
| 8 | 19 | Nov. 1 to 7 | | | | | 12 | 15 | 238 | 27 | 23 | 28 |
| 9 | 25 | | | | | | | 27 | 238 | 29 | 25 | 82 |
| 10 | 27 | | | | | | | 19 | 246 | 28 | 19 | 85 |
| 11 | 25 | | | | | | | 14 | 236 | 26 | 19 | 44 |
| 12 | 22 | | | | | | | 25 | 233 | 51 | 16 | 42 |
| 13 | 19 | | | | | | | 54 | 241 | 78 | 12 | 39 |
| 14 | 16 | | | | | | | 70 | 248 | 49 | 10 | 37 |
| 15 | 17 | | | | | | | 55 | 251 | 45 | 8.4 | 36 |
| 16 | 17 | | | | | | | 55 | 246 | 56 | 8.4 | 36 |
| 17 | 17 | | | | | | | 86 | 243 | 48 | 9.2 | 31 |
| 18 | 17 | | | | | | Apr. 19 to 30 | 125 | 208 | 50 | 12 | 28 |
| 19 | 19 | | | | | | | 5.0 | 60 | 195 | 52 | 15 |
| 20 | 18 | | | | | | | 4.0 | 33 | 131 | 52 | 19 |
| 21 | 17 | | | | | | | 1.5 | 28 | 115 | 37 | 25 |
| 22 | 16 | | | | | | | 0.9 | 28 | 93 | 49 | 28 |
| 23 | 16 | | | | | | | 2.0 | 18 | 78 | 48 | 33 |
| 24 | 16 | | | | | | | 6.8 | 12 | 65 | 48 | 31 |
| 25 | 15 | | | | | | | 13 | 74 | 55 | 45 | 33 |
| 26 | 15 | | | | | | | 16 | 165 | 48 | 44 | 32 |
| 27 | 16 | | | | | | | 18 | 208 | 49 | 40 | 31 |
| 28 | 18 | | | | | | | 16 | 223 | 45 | 44 | 31 |
| 29 | 19 | | | | | | | 14 | 246 | 86 | 84 | 31 |
| 30 | 23 | | | | | | | 13 | 223 | 74 | 36 | 29 |
| 31 | 20 | | | | | | | | 223 | 32 | 28 | .. |
| Total | 589 | 106 | | | | | 110.2 | 2147.6 | 5584 | 1456 | 694 | 1087 |
| Mean. | 19.0 | 15.1 | | | | | 9.18 | 69.3 | 186 | 47.0 | 22.4 | 36.2 |
| Max. | 27 | 19 | | | | | 18 | 246 | 306 | 105 | 33 | 85 |
| Min. | 15 | 12 | | | | | 0.9 | 5.5 | 45 | 18 | 8.4 | 20 |
| Acre-ft. | 1170 | 210 | | | | | 219 | 4260 | 11080 | 2890 | 1380 | 2160 |

Total run-off for period=23,370 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of South Platte River at 11-Mile Canon Reservoir Near Lake George, Colo., for
Year Ending Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|-------|------|-------|------|------|-------|
| 1.... | 90 | 20 | ..... | ..... | ..... | ..... | 7.2 | 10 | 242 | 76 | 167 | 17 |
| 2.... | 79 | 20 | ..... | ..... | ..... | ..... | 3.1 | 10 | 297 | 90 | 154 | 17 |
| 3.... | 63 | 6.8 | ..... | ..... | ..... | ..... | 3.1 | 10 | 122 | 109 | 240 | 17 |
| 4.... | 47 | 6.8 | ..... | ..... | ..... | ..... | 3.1 | 19 | 49 | 144 | 169 | 16 |
| 5.... | 47 | 6.8 | ..... | ..... | ..... | ..... | 3.1 | 53 | 38 | 144 | 88 | 16 |
| 6.... | 47 | 12 | ..... | ..... | ..... | ..... | 3.1 | 76 | 28 | 160 | 114 | 15 |
| 7.... | 55 | 12 | ..... | ..... | ..... | ..... | 3.1 | 114 | 28 | 171 | 139 | 14 |
| 8.... | 86 | 12 | ..... | ..... | ..... | ..... | 3.1 | 139 | 28 | 171 | 127 | 14 |
| 9.... | 70 | 12 | ..... | ..... | ..... | ..... | 7.2 | 139 | 27 | 93 | 72 | 14 |
| 10.... | 124 | 12 | ..... | ..... | ..... | ..... | 7.2 | 125 | 36 | 59 | 41 | 14 |
| 11.... | 122 | 12 | ..... | ..... | ..... | ..... | 7.2 | 109 | 46 | 98 | 35 | 14 |
| 12.... | 186 | 12 | ..... | ..... | ..... | ..... | 7.2 | 90 | 45 | 156 | 36 | 14 |
| 13.... | 186 | 12 | ..... | ..... | ..... | ..... | 7.2 | 79 | 39 | 77 | 28 | 14 |
| 14.... | 186 | 12 | ..... | ..... | ..... | ..... | 7.2 | 177 | 32 | 41 | 22 | 14 |
| 15.... | 186 | 12 | ..... | ..... | ..... | ..... | 7.2 | 154 | 33 | 73 | 22 | 14 |
| 16.... | 186 | 12 | ..... | ..... | ..... | ..... | 7.6 | 135 | 33 | 90 | 22 | 14 |
| 17.... | 65 | 12 | ..... | ..... | ..... | ..... | 7.6 | 141 | 34 | 94 | 22 | 14 |
| 18.... | 65 | 7.6 | ..... | ..... | ..... | ..... | 7.6 | 141 | 35 | 86 | 22 | 14 |
| 19.... | 36 | 7.6 | ..... | ..... | ..... | ..... | 7.6 | 127 | 35 | 65 | 22 | 14 |
| 20.... | 58 | 7.2 | ..... | ..... | ..... | ..... | 7.6 | 124 | 35 | 51 | 22 | 12 |
| 21.... | 58 | 7.2 | ..... | ..... | ..... | ..... | 7.6 | 124 | 35 | 47 | 22 | 11 |
| 22.... | 58 | 7.2 | ..... | ..... | ..... | ..... | 7.6 | 83 | 35 | 36 | 22 | 14 |
| 23.... | 47 | 7.2 | ..... | ..... | ..... | ..... | 10 | 93 | 34 | 30 | 22 | 10 |
| 24.... | 47 | 7.2 | ..... | ..... | ..... | ..... | 10 | 124 | 35 | 30 | 22 | 9.5 |
| 25.... | 47 | 7.2 | ..... | ..... | ..... | ..... | 10 | 237 | 35 | 23 | 26 | 9.5 |
| 26.... | 47 | 7.2 | ..... | ..... | ..... | ..... | 10 | 274 | 34 | 14 | 18 | 9.5 |
| 27.... | 47 | 7.2 | ..... | ..... | ..... | ..... | 10 | 290 | 34 | 36 | 17 | 10 |
| 28.... | 47 | 7.2 | ..... | ..... | ..... | ..... | 10 | 272 | 34 | 65 | 18 | 10 |
| 29.... | 22 | 7.2 | ..... | ..... | ..... | ..... | 10 | 177 | 34 | 112 | 18 | 8.0 |
| 30.... | 20 | 7.2 | ..... | ..... | ..... | ..... | 10 | 175 | 56 | 184 | 18 | 8.0 |
| 31.... | 20 | ..... | ..... | ..... | ..... | ..... | ..... | 171 | ..... | 186 | 17 | ..... |
| Total | 2444 | 298.8 | 217 | 217 | 196 | 217 | 212.5 | 3992 | 1628 | 2811 | 1778 | 391.5 |
| Mean.. | 78.8 | 9.96 | 7 | 7 | 7 | 7 | 7.8 | 120 | 54.3 | 90.7 | 57.4 | 13.0 |
| Max... | 186 | 20 | ..... | ..... | ..... | ..... | 10 | 290 | 297 | 186 | 240 | 17 |
| Min... | 20 | 6.8 | ..... | ..... | ..... | ..... | 3.1 | 10 | 27 | 14 | 17 | 8 |
| Acre-ft. | 4850 | 593 | 430 | 430 | 389 | 430 | 421 | 7920 | 3230 | 5580 | 3530 | 777 |

Total run-off for water year 1938-39=28,580 acre-feet.

**Discharge of South Platte River at 11-Mile Canon Reservoir Near Lake George, Colorado, for
Year Ending Sept. 30, 1940.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| 1.... | 8.0 | 3.1 | ..... | 3.7 | ..... | ..... | 3.6 | 3.1 | 13 | 15 | 15 | 28 |
| 2.... | 8.5 | 2.5 | ..... | 3.7 | ..... | ..... | 3.6 | 2.8 | 19 | 15 | 11 | 27 |
| 3.... | 8.5 | 2.5 | ..... | 3.7 | ..... | ..... | 3.5 | 2.8 | 46 | 15 | 11 | 26 |
| 4.... | 8.5 | 2.5 | ..... | 3.7 | ..... | ..... | 3.5 | 2.5 | 43 | 14 | 11 | 26 |
| 5.... | 8.0 | 2.5 | ..... | 3.7 | ..... | ..... | 3.5 | 2.5 | 48 | 11 | 11 | 26 |
| 6.... | 6.8 | 2.2 | ..... | 3.7 | ..... | ..... | 3.5 | 2.5 | 79 | 10 | 12 | 26 |
| 7.... | 5.2 | 2.2 | ..... | 3.7 | ..... | ..... | 3.5 | 3.4 | 73 | 9.5 | 12 | 20 |
| 8.... | 5.2 | 1.9 | ..... | 3.7 | ..... | ..... | 3.1 | 2.5 | 34 | 8.5 | 12 | 18 |
| 9.... | 5.6 | 2.2 | ..... | 3.7 | ..... | ..... | 2.7 | 2.5 | 11 | 8.5 | 12 | 24 |
| 10.... | 5.2 | 2.2 | ..... | 3.7 | ..... | ..... | 2.7 | 2.5 | 20 | 8.5 | 12 | 37 |
| 11.... | 4.8 | 2.2 | ..... | 3.7 | ..... | ..... | 2.7 | 2.8 | 25 | 8.5 | 12 | 40 |
| 12.... | 5.2 | 2.2 | ..... | 3.7 | ..... | ..... | 2.7 | 3.1 | 18 | 8.5 | 12 | 35 |
| 13.... | 5.2 | 2.2 | ..... | 3.7 | ..... | ..... | 2.7 | 3.1 | 18 | 15 | 12 | 31 |
| 14.... | 4.8 | 2.2 | ..... | 3.7 | ..... | ..... | 2.7 | 1.8 | 18 | 22 | 12 | 28 |
| 15.... | 4.8 | 2.2 | ..... | 3.7 | ..... | ..... | 1.6 | 7.6 | 18 | 23 | 12 | 28 |
| 16.... | 4.8 | 2.2 | ..... | 3.7 | ..... | ..... | 1.9 | 40 | 18 | 23 | 12 | 28 |
| 17.... | 4.4 | 2.2 | ..... | 3.7 | ..... | ..... | 1.9 | 56 | 20 | 21 | 12 | 28 |
| 18.... | 4.4 | 2.2 | ..... | 3.7 | ..... | ..... | 8.5 | 144 | 31 | 20 | 12 | 28 |
| 19.... | 4.0 | 2.2 | ..... | 3.7 | ..... | ..... | 14 | 173 | 31 | 20 | 12 | 22 |
| 20.... | 3.7 | 2.2 | ..... | 5.6 | ..... | ..... | 9.5 | 83 | 31 | 21 | 12 | 18 |
| 21.... | 4.4 | 2.2 | ..... | 7.0 | ..... | ..... | 9.5 | 53 | 31 | 21 | 12 | 17 |
| 22.... | 4.4 | 2.2 | ..... | 7.0 | ..... | ..... | 6.8 | 53 | 31 | 21 | 8.5 | 17 |
| 23.... | 4.0 | 2.2 | ..... | 7.0 | ..... | ..... | 3.7 | 22 | 31 | 21 | 4.0 | 18 |
| 24.... | 4.0 | 2.2 | ..... | 7.0 | ..... | ..... | 2.5 | 10 | 24 | 21 | 1.0 | 30 |
| 25.... | 4.0 | 2.2 | ..... | 7.0 | ..... | ..... | 3.4 | 17 | 20 | 21 | 17 | 47 |
| 26.... | 3.7 | 2.2 | ..... | 7.0 | ..... | ..... | 3.4 | 29 | 19 | 21 | 2.0 | 62 |
| 27.... | 4.0 | 2.2 | ..... | 7.0 | ..... | ..... | 3.4 | 18 | 18 | 21 | 2.8 | 58 |
| 28.... | 4.0 | 2.2 | ..... | 10 | ..... | ..... | 3.7 | 7.2 | 15 | 21 | 3.0 | 40 |
| 29.... | 4.0 | 2.2 | ..... | 10 | ..... | ..... | 3.4 | 8.5 | 12 | 20 | 3.0 | 43 |
| 30.... | 4.0 | 2.2 | ..... | 10 | ..... | ..... | 3.1 | 8.0 | 15 | 20 | 3.0 | 15 |
| 31.... | 4.0 | ..... | ..... | 10 | ..... | ..... | ..... | 12 | ..... | 19 | 29 | ..... |
| Total | 160.1 | 67.8 | 68.2 | 164.9 | 270 | 310 | 568.9 | 863.8 | 830 | 524 | 457.5 | 891 |
| Mean.. | 5.16 | 2.26 | 2.20 | 5.32 | 9.31 | 10 | 19.0 | 27.9 | 27.7 | 16.9 | 14.8 | 29.7 |
| Max... | 8.5 | 3.1 | ..... | 10 | ..... | ..... | 36 | 173 | 79 | 23 | 30 | 62 |
| Min... | 3.7 | 1.9 | ..... | 3.7 | ..... | ..... | 2.5 | 2.5 | 11 | 8.5 | 4.0 | 15 |
| Acre-ft. | 318 | 134 | 135 | 327 | 536 | 615 | 1130 | 1710 | 1650 | 1040 | 907 | 1770 |

Total run-off for water year 1939-40=10,270 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River Above Lake Cheesman, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|--------|-------|-------|-------|-------|---------|-------|-------|-------|------|-------|
| 1.... | 175 | 74 | ..... | ..... | ..... | ..... | ..... | 83 | 586 | 121 | 273 | 32 |
| 2.... | 157 | 79 | ..... | ..... | ..... | ..... | April 4 | 89 | 712 | 168 | 221 | 34 |
| 3.... | 144 | 81 | ..... | ..... | ..... | ..... | to 30 | 101 | 512 | 166 | 237 | 30 |
| 4.... | 123 | 59 | ..... | ..... | ..... | ..... | ..... | 161 | 107 | 243 | 175 | 347 |
| 5.... | 119 | 52 | ..... | ..... | ..... | ..... | ..... | 148 | 97 | 195 | 177 | 170 |
| 6.... | 121 | ..... | ..... | ..... | ..... | ..... | ..... | 146 | 142 | 181 | 168 | 131 |
| 7.... | 153 | ..... | ..... | ..... | ..... | ..... | ..... | 127 | 172 | 183 | 190 | 168 |
| 8.... | 365 | ..... | ..... | ..... | ..... | ..... | ..... | 87 | 202 | 170 | 202 | 168 |
| 9.... | 237 | ..... | ..... | ..... | ..... | ..... | ..... | 70 | 208 | 150 | 221 | 142 |
| 10.... | 316 | ..... | ..... | ..... | ..... | ..... | ..... | 89 | 198 | 136 | 111 | 89 |
| 11.... | 263 | ..... | ..... | ..... | ..... | ..... | ..... | 119 | 192 | 195 | 129 | 40 |
| 12.... | 266 | ..... | ..... | ..... | ..... | ..... | ..... | 113 | 166 | 352 | 161 | 43 |
| 13.... | 256 | ..... | ..... | ..... | ..... | ..... | ..... | 99 | 190 | 356 | 157 | 44 |
| 14.... | 253 | ..... | ..... | ..... | ..... | ..... | ..... | 101 | 270 | 253 | 95 | 38 |
| 15.... | 270 | ..... | ..... | ..... | ..... | ..... | ..... | 129 | 400 | 150 | 66 | 30 |
| 16.... | 253 | ..... | ..... | ..... | ..... | ..... | ..... | 121 | 296 | 110 | 119 | 37 |
| 17.... | 161 | ..... | ..... | ..... | ..... | ..... | ..... | 113 | 253 | 97 | 113 | 34 |
| 18.... | 136 | ..... | ..... | ..... | ..... | ..... | ..... | 83 | 288 | 97 | 133 | 30 |
| 19.... | 117 | ..... | ..... | ..... | ..... | ..... | ..... | 91 | 329 | 91 | 119 | 28 |
| 20.... | 107 | ..... | ..... | ..... | ..... | ..... | ..... | 105 | 304 | 77 | 93 | 29 |
| 21.... | 117 | ..... | ..... | ..... | ..... | ..... | ..... | 109 | 312 | 77 | 79 | 29 |
| 22.... | 119 | ..... | ..... | ..... | ..... | ..... | ..... | 119 | 360 | 81 | 72 | 26 |
| 23.... | 109 | ..... | ..... | ..... | ..... | ..... | ..... | 115 | 205 | 95 | 52 | 23 |
| 24.... | 109 | ..... | ..... | ..... | ..... | ..... | ..... | 115 | 240 | 144 | 40 | 23 |
| 25.... | 109 | ..... | ..... | ..... | ..... | ..... | ..... | 103 | 400 | 103 | 37 | 24 |
| 26.... | 103 | ..... | ..... | ..... | ..... | ..... | ..... | 81 | 586 | 101 | 33 | 46 |
| 27.... | 103 | ..... | ..... | ..... | ..... | ..... | ..... | 85 | 642 | 111 | 14 | 27 |
| 28.... | 105 | ..... | ..... | ..... | ..... | ..... | ..... | 85 | 544 | 109 | 74 | 23 |
| 29.... | 89 | ..... | ..... | ..... | ..... | ..... | ..... | 85 | 426 | 87 | 144 | 26 |
| 30.... | 79 | Nov. 1 | ..... | ..... | ..... | ..... | ..... | 68 | 448 | 74 | 224 | 24 |
| 31.... | 76 | to 5 | ..... | ..... | ..... | ..... | ..... | ..... | 415 | ..... | 253 | 24 |
| Total | 5110 | 345 | ..... | ..... | ..... | ..... | 2867 | 8665 | 5828 | 3906 | 2594 | 592 |
| Mean. | 165 | 69.0 | ..... | ..... | ..... | ..... | 106 | 280 | 194 | 126 | 83.7 | 19.7 |
| Max.. | 365 | 81 | ..... | ..... | ..... | ..... | 161 | 642 | 712 | 253 | 347 | 34 |
| Min.. | 76 | 52 | ..... | ..... | ..... | ..... | 68 | 83 | 74 | 14 | 23 | 13 |
| Acre-ft. | 10140 | 684 | ..... | ..... | ..... | ..... | 5690 | 17190 | 11560 | 7750 | 5150 | 1170 |

Total run-off for period=59,334 acre-feet.

Discharge of South Platte River Above Lake Cheesman, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|--------|-------|------|-------|------|------|-------|
| 1.... | 13 | 14 | ..... | ..... | ..... | 15 | 70 | 18 | 38 | 24 | 30 | 37 |
| 2.... | 13 | 19 | ..... | ..... | ..... | 10 | 70 | 19 | 38 | 26 | 24 | 37 |
| 3.... | 12 | 20 | ..... | ..... | ..... | 9.1 | 68 | 15 | 43 | 33 | 20 | 38 |
| 4.... | 11 | 18 | ..... | ..... | ..... | 13 | 68 | 16 | 83 | 48 | 24 | 43 |
| 5.... | 12 | 20 | ..... | ..... | ..... | 13 | 52 | 16 | 95 | 52 | 19 | 36 |
| 6.... | 13 | 18 | ..... | ..... | ..... | 13 | 77 | 15 | 133 | 36 | 19 | 34 |
| 7.... | 14 | 13 | ..... | ..... | ..... | 13 | 95 | 15 | 195 | 24 | 19 | 34 |
| 8.... | 13 | 12 | ..... | ..... | ..... | 13 | 54 | 16 | 146 | 20 | 21 | 32 |
| 9.... | 12 | 11 | ..... | ..... | ..... | 13 | 77 | 19 | 79 | 16 | 22 | 95 |
| 10.... | 11 | 12 | ..... | ..... | ..... | 23 | 72 | 23 | 51 | 13 | 22 | 115 |
| 11.... | 9.8 | 13 | ..... | ..... | ..... | 18 | 68 | 33 | 49 | 13 | 22 | 148 |
| 12.... | 9.8 | 12 | ..... | ..... | ..... | 23 | 38 | 34 | 70 | 13 | 22 | 166 |
| 13.... | 11 | 13 | ..... | ..... | ..... | 13 | 56 | 43 | 66 | 13 | 20 | 105 |
| 14.... | 12 | 13 | ..... | ..... | ..... | 7.7 | 56 | 48 | 63 | 16 | 19 | 63 |
| 15.... | 13 | 13 | ..... | ..... | ..... | 7.7 | 49 | 79 | 61 | 27 | 20 | 59 |
| 16.... | 14 | 10 | ..... | ..... | ..... | 13 | 38 | 107 | 61 | 36 | 19 | 59 |
| 17.... | 13 | 6 | ..... | ..... | ..... | 22 | 38 | 87 | 61 | 29 | 16 | 52 |
| 18.... | 16 | 5.8 | ..... | ..... | ..... | 37 | 36 | 200 | 59 | 24 | 16 | 49 |
| 19.... | 15 | 5.8 | ..... | ..... | ..... | 42 | 33 | 300 | 66 | 24 | 15 | 48 |
| 20.... | 15 | 5.8 | ..... | ..... | ..... | 52 | 30 | 243 | 68 | 27 | 13 | 42 |
| 21.... | 16 | 4.2 | ..... | ..... | ..... | 57 | 28 | 159 | 64 | 33 | 14 | 28 |
| 22.... | 15 | 3.0 | ..... | ..... | ..... | 62 | 26 | 181 | 64 | 44 | 19 | 28 |
| 23.... | 15 | 3.0 | ..... | ..... | ..... | 65 | 24 | 170 | 63 | 40 | 17 | 33 |
| 24.... | 17 | 2.6 | ..... | ..... | ..... | 69 | 23 | 85 | 61 | 34 | 40 | 33 |
| 25.... | 16 | 2.6 | ..... | ..... | ..... | 72 | 22 | 52 | 60 | 32 | 29 | 46 |
| 26.... | 16 | 2.6 | ..... | ..... | ..... | 84 | 22 | 52 | 58 | 32 | 36 | 66 |
| 27.... | 20 | 2.6 | ..... | ..... | ..... | 80 | 22 | 63 | 50 | 33 | 42 | 77 |
| 28.... | 9.1 | 2.6 | ..... | ..... | ..... | 77 | 21 | 56 | 40 | 36 | 46 | 64 |
| 29.... | 9.8 | 2.6 | ..... | ..... | ..... | 74 | 22 | 48 | 30 | 33 | 48 | 56 |
| 30.... | 16 | 2.6 | ..... | ..... | ..... | 73 | 23 | 51 | 22 | 32 | 40 | 51 |
| 31.... | 16 | ..... | ..... | ..... | ..... | 72 | ..... | 42 | ..... | 30 | 42 | ..... |
| Total | 418.5 | 282.8 | 86.8 | 130.2 | 139.2 | 1155.5 | 1378 | 2305 | 2037 | 893 | 775 | 1774 |
| Mean. | 13.5 | 9.43 | 2.8 | 4.2 | 4.8 | 37.3 | 45.9 | 74.4 | 67.9 | 28.8 | 25.0 | 59.1 |
| Max.. | 20 | 20 | ..... | ..... | ..... | 84 | 95 | 300 | 195 | 52 | 48 | 166 |
| Min.. | 9.1 | 2.6 | ..... | ..... | ..... | 7.7 | 21 | 15 | 22 | 13 | 13 | 28 |
| Acre ft. | 830 | 561 | 172 | 258 | 276 | 2290 | 2730 | 4570 | 4040 | 1770 | 1540 | 3520 |

Total run-off for water year 1939-40=22,560 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River Below Lake Cheesman, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| 1.... | 250 | 95 | 28 | 21 | 20 | 21 | 134 | 201 | 568 | 317 | 314 | 117 |
| 2.... | 224 | 95 | 24 | 21 | 20 | 21 | 167 | 196 | 712 | 93 | 284 | 134 |
| 3.... | 222 | 95 | 24 | 21 | 20 | 21 | 201 | 203 | 591 | 242 | 264 | 145 |
| 4.... | 222 | 93 | 22 | 21 | 20 | 21 | 227 | 220 | 367 | 203 | 335 | 147 |
| 5.... | 190 | 78 | 22 | 21 | 20 | 21 | 208 | 208 | 253 | 150 | 284 | 145 |
| 6.... | 165 | 28 | 22 | 21 | 20 | 21 | 203 | 222 | 210 | 169 | 201 | 145 |
| 7.... | 210 | 28 | 22 | 21 | 20 | 21 | 184 | 258 | 194 | 169 | 199 | 126 |
| 8.... | 402 | 28 | 22 | 21 | 20 | 21 | 156 | 287 | 192 | 199 | 212 | 114 |
| 9.... | 462 | 28 | 22 | 21 | 20 | 21 | 126 | 317 | 184 | 230 | 194 | 114 |
| 10.... | 341 | 28 | 22 | 21 | 20 | 21 | 123 | 305 | 156 | 247 | 167 | 93 |
| 11.... | 451 | 28 | 22 | 21 | 21 | 21 | 141 | 296 | 177 | 143 | 112 | 93 |
| 12.... | 430 | 28 | 22 | 21 | 21 | 21 | 147 | 278 | 281 | 181 | 123 | 98 |
| 13.... | 381 | 28 | 22 | 21 | 21 | 21 | 138 | 275 | 348 | 302 | 118 | 114 |
| 14.... | 381 | 28 | 22 | 21 | 21 | 21 | 138 | 317 | 311 | 234 | 112 | 120 |
| 15.... | 354 | 28 | 22 | 21 | 21 | 21 | 164 | 458 | 201 | 122 | 150 | 125 |
| 16.... | 338 | 28 | 22 | 20 | 21 | 21 | 165 | 406 | 152 | 133 | 143 | 128 |
| 17.... | 296 | 28 | 22 | 20 | 21 | 21 | 145 | 364 | 133 | 480 | 156 | 130 |
| 18.... | 208 | 28 | 24 | 20 | 21 | 21 | 133 | 354 | 120 | 458 | 210 | 128 |
| 19.... | 164 | 28 | 24 | 20 | 21 | 21 | 131 | 370 | 112 | 556 | 215 | 126 |
| 20.... | 138 | 28 | 24 | 20 | 21 | 21 | 140 | 370 | 112 | 526 | 167 | 125 |
| 21.... | 136 | 28 | 24 | 20 | 21 | 21 | 152 | 354 | 106 | 402 | 123 | 122 |
| 22.... | 136 | 28 | 24 | 20 | 21 | 21 | 177 | 381 | 106 | 341 | 98 | 120 |
| 23.... | 147 | 28 | 24 | 20 | 21 | 21 | 217 | 348 | 114 | 147 | 93 | 120 |
| 24.... | 160 | 28 | 24 | 20 | 21 | 21 | 203 | 329 | 134 | 141 | 123 | 111 |
| 25.... | 160 | 28 | 24 | 20 | 21 | 21 | 199 | 388 | 143 | 118 | 140 | 111 |
| 26.... | 160 | 28 | 24 | 20 | 21 | 21 | 171 | 552 | 437 | 120 | 165 | 111 |
| 27.... | 143 | 28 | 24 | 20 | 21 | 21 | 171 | 638 | 437 | 134 | 177 | 108 |
| 28.... | 136 | 28 | 24 | 20 | 21 | 21 | 188 | 587 | 434 | 141 | 169 | 108 |
| 29.... | 136 | 28 | 24 | 20 | .... | 21 | 210 | 488 | 406 | 240 | 150 | 111 |
| 30.... | 136 | 28 | 24 | 20 | .... | 21 | 220 | 440 | 370 | 341 | 126 | 111 |
| 31.... | 126 | .... | 24 | 20 | .... | 67 | .... | 437 | .... | 264 | 102 | .... |
| Total | 7405 | 1156 | 720 | 635 | 578 | 697 | 5084 | 10847 | 8066 | 7543 | 5426 | 3600 |
| Mean. | 239 | 38.5 | 23.2 | 20.5 | 20.6 | 22.5 | 169 | 350 | 269 | 243 | 175 | 120 |
| Max.. | 462 | 95 | 28 | 21 | 21 | 67 | 227 | 638 | 712 | 556 | 335 | 147 |
| Min.. | 126 | 28 | 22 | 20 | 20 | 21 | 123 | 196 | 106 | 93 | 93 | 93 |
| Acre-ft. | 14690 | 2290 | 1430 | 1260 | 1150 | 1380 | 10100 | 21510 | 16000 | 14960 | 10760 | 7140 |

Total run-off for water year 1938-39=102,670 acre-feet.

Discharge of South Platte River Below Lake Cheesman, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|-------|
| 1.... | 111 | 110 | 15 | 34 | 20 | 16 | 10 | 38 | 80 | 76 | 120 | 128 |
| 2.... | 125 | 95 | 15 | 28 | 20 | 13 | 10 | 38 | 72 | 68 | 149 | 130 |
| 3.... | 131 | 74 | 15 | 20 | 20 | 12 | 10 | 38 | 72 | 62 | 117 | 145 |
| 4.... | 101 | 64 | 15 | 20 | 20 | 11 | 10 | 38 | 96 | 92 | 116 | 138 |
| 5.... | 98 | 44 | 15 | 20 | 20 | 11 | 10 | 38 | 116 | 128 | 116 | 136 |
| 6.... | 98 | 45 | 15 | 20 | 20 | 11 | 10 | 38 | 138 | 76 | 105 | 125 |
| 7.... | 111 | 52 | 15 | 20 | 20 | 11 | 10 | 38 | 232 | 70 | 108 | 120 |
| 8.... | 123 | 60 | 15 | 20 | 20 | 10 | 48 | 38 | 247 | 44 | 108 | 184 |
| 9.... | 122 | 60 | 15 | 20 | 20 | 10 | 100 | 38 | 128 | 42 | 108 | 194 |
| 10.... | 75 | 60 | 15 | 20 | 20 | 10 | 81 | 38 | 74 | 40 | 108 | 196 |
| 11.... | 69 | 47 | 15 | 20 | 20 | 10 | 68 | 38 | 74 | 39 | 108 | 160 |
| 12.... | 69 | 34 | 15 | 20 | 20 | 10 | 51 | 38 | 87 | 39 | 110 | 95 |
| 13.... | 69 | 29 | 15 | 20 | 20 | 10 | 51 | 49 | 106 | 56 | 133 | 162 |
| 14.... | 69 | 29 | 15 | 20 | 20 | 10 | 51 | 65 | 111 | 104 | 133 | 92 |
| 15.... | 64 | 29 | 15 | 20 | 20 | 10 | 61 | 73 | 95 | 118 | 131 | 65 |
| 16.... | 64 | 24 | 15 | 20 | 21 | 10 | 55 | 92 | 95 | 120 | 154 | 74 |
| 17.... | 73 | 22 | 15 | 20 | 21 | 10 | 28 | 122 | 117 | 120 | 261 | 81 |
| 18.... | 73 | 22 | 15 | 20 | 21 | 10 | 28 | 237 | 398 | 112 | 256 | 81 |
| 19.... | 73 | 22 | 15 | 20 | 21 | 10 | 28 | 320 | 395 | 91 | 250 | 81 |
| 20.... | 73 | 21 | 15 | 20 | 21 | 10 | 28 | 320 | 367 | 90 | 266 | 81 |
| 21.... | 72 | 18 | 15 | 20 | 21 | 10 | 28 | 326 | 378 | 90 | 266 | 81 |
| 22.... | 70 | 15 | 24 | 20 | 21 | 10 | 57 | 275 | 381 | 217 | 264 | 66 |
| 23.... | 70 | 15 | 32 | 20 | 21 | 10 | 76 | 242 | 378 | 326 | 234 | 58 |
| 24.... | 69 | 15 | 33 | 20 | 21 | 10 | 76 | 184 | 458 | 351 | 75 | 58 |
| 25.... | 70 | 15 | 34 | 20 | 21 | 10 | 76 | 184 | 533 | 367 | 65 | 98 |
| 26.... | 101 | 15 | 34 | 20 | 22 | 10 | 76 | 145 | 454 | 395 | 65 | 112 |
| 27.... | 116 | 15 | 34 | 20 | 23 | 10 | 86 | 97 | 184 | 423 | 59 | 112 |
| 28.... | 116 | 15 | 34 | 20 | 23 | 10 | 82 | 101 | 81 | 416 | 47 | 112 |
| 29.... | 116 | 15 | 34 | 20 | 23 | 10 | 62 | 117 | 78 | 108 | 84 | 112 |
| 30.... | 112 | 15 | 34 | 20 | .... | 10 | 45 | 117 | 78 | 87 | 117 | 91 |
| 31.... | 111 | .... | 34 | 20 | .... | 10 | .... | 112 | .... | 93 | 128 | .... |
| Total | 2814 | 1096 | 642 | 642 | 601 | 325 | 1412 | 3634 | 6103 | 4460 | 4361 | 3368 |
| Mean. | 90.8 | 36.5 | 20.7 | 20.7 | 20.7 | 10.5 | 47.1 | 117 | 203 | 144 | 141 | 112 |
| Max.. | 131 | 110 | 34 | 34 | 23 | 16 | 100 | 326 | 533 | 423 | 266 | 196 |
| Min.. | 64 | 15 | 15 | 20 | 20 | 10 | 10 | 38 | 72 | 39 | 47 | 58 |
| Acre-ft. | 5580 | 2170 | 1270 | 1270 | 1190 | 645 | 2800 | 7210 | 12110 | 8850 | 8650 | 6680 |

Total run-off for water year 1939-40=58,420 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of North Fork of South Platte River at South Platte, Colo., for Year Ending
Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|------|------|------|------|-------|-------|-------|------|------|-------|
| 1.... | 250 | 166 | 101 | 82 | 34 | 23 | 120 | 374 | 487 | 185 | 156 | 75 |
| 2.... | 248 | 168 | 101 | 90 | 20 | 24 | 129 | 414 | 425 | 173 | 101 | 62 |
| 3.... | 242 | 170 | 89 | 83 | 22 | 26 | 133 | 421 | 381 | 163 | 112 | 54 |
| 4.... | 233 | 173 | 97 | 77 | 28 | 28 | 138 | 402 | 381 | 154 | 91 | 50 |
| 5.... | 233 | 142 | 93 | 74 | 33 | 32 | 144 | 388 | 384 | 151 | 80 | 44 |
| 6.... | 233 | 125 | 89 | 73 | 34 | 35 | 135 | 421 | 378 | 144 | 82 | 47 |
| 7.... | 274 | 80 | 88 | 72 | 34 | 41 | 140 | 370 | 353 | 216 | 82 | 50 |
| 8.... | 310 | 87 | 99 | 68 | 35 | 48 | 142 | 350 | 326 | 222 | 82 | 73 |
| 9.... | 268 | 95 | 89 | 52 | 32 | 58 | 149 | 346 | 310 | 216 | 72 | 70 |
| 10.... | 242 | 104 | 84 | 42 | 26 | 80 | 149 | 392 | 303 | 202 | 64 | 53 |
| 11.... | 233 | 116 | 72 | 38 | 38 | 62 | 138 | 388 | 278 | 195 | 62 | 50 |
| 12.... | 225 | 99 | 44 | 40 | 42 | 72 | 149 | 381 | 278 | 180 | 56 | 50 |
| 13.... | 216 | 69 | 38 | 44 | 46 | 80 | 170 | 357 | 274 | 108 | 53 | 46 |
| 14.... | 216 | 82 | 47 | 36 | 50 | 68 | 173 | 395 | 278 | 101 | 52 | 43 |
| 15.... | 225 | 97 | 79 | 22 | 45 | 60 | 173 | 357 | 281 | 97 | 48 | 44 |
| 16.... | 213 | 112 | 104 | 34 | 40 | 68 | 166 | 370 | 290 | 95 | 91 | 48 |
| 17.... | 213 | 114 | 69 | 27 | 30 | 50 | 151 | 374 | 287 | 91 | 95 | 56 |
| 18.... | 200 | 93 | 69 | 48 | 38 | 70 | 142 | 402 | 274 | 95 | 73 | 46 |
| 19.... | 190 | 101 | 112 | 52 | 35 | 85 | 161 | 417 | 256 | 89 | 48 | 41 |
| 20.... | 185 | 101 | 110 | 45 | 28 | 98 | 170 | 451 | 242 | 82 | 48 | 39 |
| 21.... | 185 | 89 | 95 | 54 | 25 | 115 | 173 | 432 | 227 | 77 | 58 | 38 |
| 22.... | 188 | 69 | 112 | 45 | 24 | 120 | 200 | 451 | 216 | 77 | 56 | 39 |
| 23.... | 182 | 70 | 80 | 55 | 32 | 133 | 245 | 462 | 213 | 72 | 50 | 36 |
| 24.... | 166 | 65 | 76 | 38 | 49 | 135 | 219 | 432 | 216 | 67 | 48 | 41 |
| 25.... | 168 | 72 | 70 | 48 | 37 | 127 | 219 | 428 | 222 | 70 | 47 | 43 |
| 26.... | 173 | 56 | 60 | 45 | 42 | 114 | 233 | 474 | 216 | 151 | 50 | 48 |
| 27.... | 163 | 97 | 50 | 52 | 31 | 125 | 239 | 447 | 205 | 195 | 50 | 47 |
| 28.... | 158 | 93 | 70 | 55 | 22 | 88 | 278 | 443 | 190 | 188 | 54 | 40 |
| 29.... | 154 | 94 | 80 | 45 | .... | 86 | 353 | 455 | 190 | 168 | 59 | 43 |
| 30.... | 156 | 101 | 76 | 43 | .... | 89 | 378 | 462 | 195 | 168 | 99 | 47 |
| 31.... | 166 | .... | 75 | 55 | .... | 108 | .... | 462 | .... | 213 | 112 | .... |
| Total | 6508 | 3100 | 2518 | 1634 | 952 | 2348 | 5509 | 12718 | 8556 | 4405 | 2231 | 1463 |
| Mean. | 210 | 103 | 81.2 | 52.7 | 34.0 | 75.7 | 184 | 410 | 285 | 142 | 72.0 | 48.8 |
| Max.. | 310 | 173 | 112 | 90 | 50 | 135 | 378 | 474 | 487 | 222 | 156 | 75 |
| Min.. | 154 | 56 | 38 | 22 | 20 | 23 | 120 | 346 | 190 | 67 | 47 | 36 |
| Acre-ft. | 12910 | 6150 | 4990 | 3240 | 1890 | 4660 | 10930 | 25230 | 16970 | 8740 | 4430 | 2900 |

Total run-off for water year 1938-39=103,040 acre-feet.

**Discharge of North Fork of South Platte River at South Platte, Colorado, for Year Ending
Sept. 30, 1940.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|-------|
| 1.... | 41 | 37 | 32 | 20 | 31 | 47 | 63 | 69 | 200 | 116 | 74 | 49 |
| 2.... | 40 | 38 | 33 | 21 | 31 | 48 | 64 | 70 | 202 | 128 | 67 | 44 |
| 3.... | 44 | 44 | 31 | 19 | 31 | 48 | 59 | 83 | 200 | 124 | 62 | 59 |
| 4.... | 54 | 47 | 29 | 18 | 31 | 48 | 57 | 104 | 190 | 130 | 60 | 62 |
| 5.... | 56 | 49 | 27 | 16 | 32 | 48 | 56 | 108 | 210 | 136 | 55 | 57 |
| 6.... | 56 | 45 | 25 | 15 | 31 | 49 | 62 | 92 | 215 | 122 | 55 | 46 |
| 7.... | 62 | 38 | 24 | 15 | 33 | 51 | 65 | 97 | 178 | 105 | 57 | 41 |
| 8.... | 56 | 38 | 23 | 15 | 34 | 53 | 58 | 108 | 177 | 99 | 62 | 46 |
| 9.... | 65 | 43 | 22 | 16 | 30 | 56 | 58 | 104 | 168 | 94 | 62 | 67 |
| 10.... | 69 | 47 | 21 | 17 | 34 | 58 | 61 | 120 | 179 | 85 | 57 | 118 |
| 11.... | 59 | 54 | 21 | 20 | 35 | 53 | 57 | 121 | 168 | 83 | 54 | 96 |
| 12.... | 59 | 56 | 20 | 19 | 31 | 51 | 49 | 133 | 161 | 90 | 54 | 74 |
| 13.... | 54 | 49 | 20 | 18 | 28 | 50 | 71 | 124 | 159 | 83 | 49 | 79 |
| 14.... | 48 | 45 | 20 | 16 | 30 | 55 | 67 | 113 | 163 | 79 | 44 | 92 |
| 15.... | 44 | 45 | 21 | 15 | 32 | 59 | 73 | 108 | 181 | 74 | 43 | 81 |
| 16.... | 41 | 43 | 21 | 16 | 31 | 62 | 77 | 118 | 200 | 97 | 43 | 72 |
| 17.... | 40 | 40 | 19 | 19 | 29 | 61 | 76 | 128 | 200 | 97 | 52 | 69 |
| 18.... | 39 | 38 | 20 | 16 | 31 | 58 | 70 | 143 | 188 | 96 | 46 | 69 |
| 19.... | 41 | 37 | 21 | 14 | 34 | 54 | 76 | 124 | 174 | 122 | 46 | 69 |
| 20.... | 42 | 35 | 21 | 13 | 30 | 56 | 81 | 115 | 172 | 108 | 49 | 74 |
| 21.... | 40 | 35 | 19 | 12 | 28 | 58 | 84 | 140 | 174 | 108 | 51 | 72 |
| 22.... | 38 | 35 | 18 | 13 | 27 | 60 | 90 | 142 | 181 | 103 | 52 | 72 |
| 23.... | 40 | 35 | 17 | 13 | 29 | 62 | 86 | 143 | 170 | 99 | 52 | 99 |
| 24.... | 42 | 35 | 17 | 14 | 32 | 62 | 83 | 160 | 165 | 130 | 76 | 108 |
| 25.... | 37 | 35 | 18 | 16 | 34 | 66 | 88 | 160 | 152 | 130 | 88 | 106 |
| 26.... | 33 | 34 | 18 | 21 | 36 | 69 | 97 | 158 | 142 | 128 | 78 | 96 |
| 27.... | 32 | 33 | 18 | 26 | 40 | 69 | 93 | 167 | 138 | 148 | 66 | 97 |
| 28.... | 31 | 32 | 17 | 29 | 44 | 65 | 89 | 166 | 132 | 142 | 59 | 90 |
| 29.... | 31 | 31 | 16 | 30 | 46 | 58 | 78 | 169 | 124 | 138 | 54 | 97 |
| 30.... | 32 | 31 | 17 | 32 | .... | 57 | 72 | 171 | 116 | 90 | 54 | 101 |
| 31.... | 37 | .... | 19 | 31 | .... | 58 | .... | 177 | .... | 83 | 51 | .... |
| Total | 1403 | 1204 | 665 | 575 | 945 | 1749 | 2160 | 3935 | 5202 | 3367 | 1772 | 2302 |
| Mean. | 45.3 | 40.1 | 21.5 | 18.5 | 32.6 | 56.4 | 72.0 | 127 | 173 | 109 | 57.2 | 76.7 |
| Max.. | 69 | 56 | 33 | 32 | 46 | 69 | 97 | 177 | 215 | 148 | 88 | 118 |
| Min.. | 31 | 31 | 16 | 12 | 27 | 47 | 49 | 69 | 116 | 74 | 43 | 41 |
| Acre-ft. | 2780 | 2390 | 1320 | 1140 | 1870 | 3470 | 4280 | 7800 | 10320 | 6680 | 3510 | 4570 |

Total run-off for water year 1939-40=50,130 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at South Platte, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| 1.... | 555 | 313 | 189 | 132 | 70 | 66 | 357 | 621 | 972 | 540 | 428 | 217 |
| 2.... | 515 | 307 | 180 | 145 | 55 | 70 | 398 | 654 | 1070 | 330 | 390 | 221 |
| 3.... | 515 | 307 | 159 | 135 | 56 | 74 | 424 | 671 | 1010 | 362 | 369 | 219 |
| 4.... | 500 | 300 | 169 | 127 | 68 | 73 | 510 | 654 | 832 | 402 | 377 | 214 |
| 5.... | 490 | 323 | 178 | 126 | 73 | 80 | 475 | 660 | 671 | 313 | 394 | 194 |
| 6.... | 460 | 242 | 169 | 125 | 74 | 90 | 442 | 713 | 616 | 326 | 307 | 194 |
| 7.... | 515 | 187 | 159 | 124 | 76 | 103 | 432 | 713 | 560 | 385 | 284 | 194 |
| 8.... | 638 | 233 | 167 | 122 | 75 | 120 | 419 | 701 | 530 | 406 | 316 | 210 |
| 9.... | 784 | 256 | 157 | 102 | 68 | 145 | 406 | 732 | 505 | 428 | 264 | 205 |
| 10.... | 594 | 235 | 157 | 82 | 63 | 190 | 394 | 490 | 485 | 465 | 269 | 165 |
| 11.... | 654 | 221 | 151 | 82 | 78 | 170 | 381 | 758 | 450 | 308 | 212 | 157 |
| 12.... | 671 | 208 | 130 | 84 | 88 | 180 | 290 | 725 | 500 | 340 | 187 | 155 |
| 13.... | 599 | 180 | 108 | 87 | 94 | 192 | 414 | 695 | 572 | 394 | 194 | 157 |
| 14.... | 610 | 191 | 110 | 85 | 102 | 170 | 410 | 770 | 572 | 358 | 187 | 203 |
| 15.... | 599 | 198 | 169 | 58 | 93 | 156 | 437 | 832 | 505 | 272 | 210 | 198 |
| 16.... | 566 | 212 | 187 | 76 | 84 | 170 | 456 | 846 | 446 | 224 | 247 | 182 |
| 17.... | 530 | 214 | 130 | 72 | 70 | 140 | 414 | 811 | 414 | 460 | 258 | 187 |
| 18.... | 428 | 187 | 120 | 90 | 85 | 200 | 394 | 818 | 385 | 550 | 272 | 171 |
| 19.... | 398 | 194 | 161 | 100 | 80 | 250 | 414 | 818 | 362 | 604 | 291 | 165 |
| 20.... | 358 | 191 | 165 | 88 | 77 | 272 | 455 | 874 | 351 | 610 | 245 | 167 |
| 21.... | 347 | 180 | 143 | 98 | 72 | 291 | 485 | 818 | 333 | 480 | 217 | 165 |
| 22.... | 337 | 150 | 167 | 90 | 78 | 310 | 525 | 846 | 323 | 446 | 180 | 167 |
| 23.... | 326 | 157 | 135 | 101 | 89 | 326 | 599 | 860 | 320 | 281 | 165 | 157 |
| 24.... | 355 | 125 | 132 | 80 | 99 | 310 | 572 | 719 | 326 | 233 | 175 | 155 |
| 25.... | 355 | 151 | 128 | 94 | 85 | 291 | 540 | 764 | 358 | 214 | 189 | 157 |
| 26.... | 351 | 122 | 112 | 87 | 90 | 281 | 525 | 1000 | 520 | 281 | 214 | 157 |
| 27.... | 355 | 194 | 100 | 95 | 74 | 291 | 520 | 1080 | 604 | 330 | 237 | 157 |
| 28.... | 347 | 169 | 118 | 98 | 65 | 237 | 555 | 1060 | 599 | 347 | 240 | 159 |
| 29.... | 337 | 173 | 132 | 88 | ... | 228 | 626 | 1000 | 594 | 344 | 219 | 155 |
| 30.... | 340 | 194 | 126 | 90 | ... | 224 | 638 | 909 | 566 | 480 | 247 | 157 |
| 31.... | 337 | ... | 127 | 97 | ... | 250 | ... | 909 | ... | 470 | 256 | ... |
| Total | 14766 | 6314 | 4535 | 3061 | 2181 | 5955 | 13887 | 24821 | 16351 | 12033 | 8040 | 5361 |
| Mean... | 476 | 210 | 146 | 98.7 | 77.9 | 192 | 463 | 81 | 545 | 388 | 259 | 179 |
| Max.... | 784 | 323 | 189 | 143 | 102 | 326 | 638 | 1080 | 1070 | 610 | 428 | 221 |
| Min.... | 326 | 122 | 100 | 58 | 55 | 66 | 290 | 621 | 320 | 214 | 165 | 155 |
| Acre-ft. | 29200 | 12520 | 9000 | 6070 | 4330 | 11810 | 27540 | 49230 | 32430 | 23870 | 15950 | 10630 |

Total run-off for water year 1938-39=232,670 acre-feet.

Discharge of South Platte River at South Platte, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| 1.... | 155 | 151 | 55 | 58 | 61 | 98 | 155 | 173 | 355 | 226 | 212 | 173 |
| 2.... | 157 | 148 | 57 | 60 | 60 | 92 | 159 | 171 | 326 | 237 | 226 | 171 |
| 3.... | 171 | 130 | 56 | 49 | 58 | 86 | 146 | 184 | 313 | 228 | 205 | 230 |
| 4.... | 146 | 122 | 51 | 44 | 58 | 85 | 136 | 205 | 303 | 240 | 189 | 212 |
| 5.... | 143 | 107 | 48 | 42 | 60 | 85 | 134 | 203 | 344 | 316 | 189 | 205 |
| 6.... | 141 | 103 | 47 | 42 | 58 | 86 | 146 | 187 | 362 | 242 | 189 | 196 |
| 7.... | 144 | 104 | 46 | 41 | 60 | 90 | 146 | 187 | 398 | 208 | 194 | 184 |
| 8.... | 165 | 108 | 44 | 38 | 64 | 98 | 138 | 205 | 428 | 187 | 196 | 184 |
| 9.... | 175 | 112 | 43 | 43 | 59 | 108 | 214 | 203 | 369 | 169 | 182 | 194 |
| 10.... | 153 | 131 | 42 | 47 | 63 | 112 | 196 | 214 | 303 | 157 | 180 | 313 |
| 11.... | 133 | 136 | 40 | 49 | 66 | 112 | 184 | 214 | 278 | 157 | 178 | 340 |
| 12.... | 134 | 123 | 38 | 46 | 61 | 106 | 141 | 224 | 269 | 171 | 175 | 203 |
| 13.... | 134 | 110 | 38 | 43 | 56 | 105 | 182 | 214 | 278 | 155 | 187 | 224 |
| 14.... | 131 | 101 | 37 | 41 | 58 | 110 | 182 | 212 | 300 | 182 | 191 | 264 |
| 15.... | 128 | 92 | 39 | 40 | 62 | 115 | 196 | 212 | 297 | 212 | 191 | 173 |
| 16.... | 122 | 84 | 40 | 45 | 60 | 120 | 217 | 226 | 303 | 256 | 191 | 157 |
| 17.... | 122 | 80 | 36 | 47 | 58 | 118 | 187 | 266 | 294 | 247 | 288 | 155 |
| 18.... | 123 | 72 | 38 | 40 | 62 | 110 | 171 | 362 | 460 | 237 | 313 | 151 |
| 19.... | 123 | 68 | 39 | 36 | 67 | 108 | 182 | 442 | 520 | 240 | 307 | 153 |
| 20.... | 122 | 65 | 41 | 35 | 63 | 120 | 196 | 428 | 490 | 233 | 313 | 161 |
| 21.... | 119 | 63 | 38 | 34 | 57 | 132 | 203 | 500 | 495 | 230 | 323 | 159 |
| 22.... | 117 | 62 | 44 | 34 | 62 | 139 | 217 | 485 | 530 | 233 | 323 | 163 |
| 23.... | 116 | 61 | 49 | 35 | 67 | 146 | 235 | 490 | 520 | 377 | 410 | 169 |
| 24.... | 125 | 61 | 49 | 37 | 72 | 146 | 230 | 428 | 545 | 475 | 266 | 175 |
| 25.... | 114 | 60 | 49 | 42 | 80 | 155 | 237 | 410 | 660 | 470 | 187 | 184 |
| 26.... | 130 | 59 | 47 | 49 | 86 | 163 | 261 | 398 | 572 | 500 | 171 | 205 |
| 27.... | 153 | 58 | 46 | 54 | 92 | 165 | 253 | 358 | 465 | 540 | 159 | 212 |
| 28.... | 146 | 57 | 48 | 58 | 97 | 167 | 256 | 344 | 240 | 545 | 141 | 205 |
| 29.... | 146 | 56 | 50 | 62 | 97 | 151 | 221 | 358 | 226 | 307 | 134 | 210 |
| 30.... | 139 | 54 | 52 | 62 | ... | 146 | 201 | 362 | 221 | 214 | 171 | 212 |
| 31.... | 155 | ... | 54 | 61 | ... | 146 | ... | 362 | ... | 208 | 180 | ... |
| Total | 4282 | 2738 | 1401 | 1414 | 1924 | 3720 | 5722 | 9227 | 11464 | 8399 | 6768 | 5937 |
| Mean... | 138 | 91.3 | 45.2 | 45.6 | 66.3 | 120 | 191 | 298 | 382 | 271 | 218 | 198 |
| Max.... | 175 | 151 | 57 | 62 | 97 | 167 | 261 | 500 | 660 | 545 | 410 | 340 |
| Min.... | 114 | 54 | 36 | 34 | 56 | 85 | 134 | 171 | 221 | 155 | 134 | 151 |
| Acre-ft. | 8490 | 5430 | 2780 | 2800 | 3820 | 7380 | 11350 | 18300 | 22740 | 16660 | 13420 | 11780 |

Total run-off for water year 1939-40=124,950 acre-ft.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Waterton, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|------|------|------|------|-------|-------|-------|------|------|-------|
| 1..... | 216 | 245 | 191 | 57 | 50 | 40 | 292 | 391 | 504 | 112 | 300 | 64 |
| 2..... | 184 | 249 | 207 | 54 | 5 | 55 | 407 | 148 | 456 | 112 | 292 | 72 |
| 3..... | 184 | 258 | 138 | 50 | 5 | 55 | 407 | 195 | 370 | 164 | 253 | 85 |
| 4..... | 82 | 253 | 138 | 48 | 14 | 65 | 450 | 407 | 232 | 228 | 228 | 90 |
| 5..... | 95 | 262 | 123 | 25 | 25 | 62 | 418 | 346 | 109 | 135 | 262 | 67 |
| 6..... | 191 | 220 | 106 | 20 | 25 | 58 | 375 | 318 | 67 | 132 | 161 | 64 |
| 7..... | 199 | 112 | 95 | 12 | 30 | 65 | 385 | 310 | 70 | 184 | 123 | 57 |
| 8..... | 224 | 161 | 100 | 22 | 30 | 88 | 361 | 310 | 253 | 207 | 151 | 54 |
| 9..... | 274 | 228 | 98 | 42 | 20 | 98 | 346 | 323 | 300 | 172 | 106 | 54 |
| 10..... | 216 | 228 | 95 | 18 | 25 | 115 | 337 | 361 | 283 | 266 | 109 | 22 |
| 11..... | 241 | 187 | 90 | 25 | 45 | 135 | 328 | 445 | 258 | 164 | 95 | 10 |
| 12..... | 283 | 164 | 67 | 10 | 53 | 118 | 332 | 520 | 305 | 142 | 46 | 29 |
| 13..... | 216 | 109 | 70 | 40 | 55 | 120 | 287 | 576 | 385 | 172 | 44 | 15 |
| 14..... | 211 | 118 | 106 | 24 | 65 | 145 | 245 | 620 | 402 | 151 | 39 | 44 |
| 15..... | 207 | 123 | 115 | 10 | 75 | 123 | 258 | 626 | 332 | 100 | 42 | 44 |
| 16..... | 172 | 145 | 126 | 8 | 65 | 120 | 262 | 626 | 270 | 44 | 62 | 44 |
| 17..... | 172 | 132 | 100 | 10 | 55 | 118 | 232 | 598 | 245 | 60 | 90 | 52 |
| 18..... | 115 | 100 | 93 | 9 | 40 | 115 | 207 | 581 | 211 | 103 | 95 | 44 |
| 19..... | 93 | 106 | 129 | 12 | 54 | 158 | 232 | 587 | 237 | 184 | 118 | 46 |
| 20..... | 67 | 109 | 109 | 11 | 50 | 180 | 191 | 604 | 270 | 195 | 90 | 48 |
| 21..... | 142 | 106 | 87 | 11 | 50 | 207 | 253 | 520 | 211 | 112 | 72 | 46 |
| 22..... | 154 | 74 | 112 | 12 | 40 | 236 | 287 | 542 | 148 | 50 | 29 | 44 |
| 23..... | 123 | 109 | 93 | 16 | 45 | 258 | 327 | 604 | 138 | 67 | 29 | 42 |
| 24..... | 145 | 100 | 74 | 14 | 60 | 253 | 337 | 499 | 145 | 54 | 24 | 37 |
| 25..... | 142 | 132 | 74 | 12 | 75 | 241 | 323 | 576 | 176 | 39 | 22 | 37 |
| 26..... | 103 | 115 | 72 | 8 | 7 | 220 | 314 | 671 | 161 | 82 | 44 | 35 |
| 27..... | 98 | 142 | 82 | 7 | 58 | 228 | 322 | 592 | 158 | 142 | 70 | 27 |
| 28..... | 172 | 118 | 106 | 7 | 45 | 191 | 332 | 615 | 161 | 195 | 80 | 29 |
| 29..... | 228 | 129 | 100 | 43 | .... | 176 | 361 | 548 | 154 | 168 | 74 | 31 |
| 30..... | 249 | 180 | 193 | 42 | .... | 161 | 391 | 412 | 135 | 310 | 106 | 35 |
| 31..... | 266 | .... | 72 | 51 | .... | 158 | .... | 488 | .... | 351 | 148 | .... |
| Total | 5484 | 4714 | 3271 | 730 | 1235 | 4362 | 9619 | 14959 | 7146 | 4597 | 3404 | 1372 |
| Mean... | 176 | 157 | 106 | 23.5 | 44.1 | 141 | 321 | 483 | 238 | 148 | 110 | 45.7 |
| Max... | 283 | 262 | 207 | 57 | 76 | 258 | 450 | 671 | 504 | 351 | 300 | 90 |
| Min... | 67 | 74 | 67 | 7 | 5 | 40 | 191 | 148 | 67 | 44 | 22 | 10 |
| Acre-ft. | 10840 | 9350 | 6490 | 1450 | 2450 | 8650 | 19080 | 29670 | 14170 | 9120 | 6750 | 2720 |

Total run-off for water year 1938-39=120,740 acre-feet.

Discharge of South Platte River at Waterton, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|------|-------|-------|--------|------|------|------|------|-------|
| 1..... | 35 | 95 | 16 | 3.0 | 4.0 | 7.3 | 62 | 118 | 211 | 37 | 50 | 67 |
| 2..... | 33 | 72 | 15 | 2.8 | 4.0 | 7.3 | 72 | 85 | 199 | 57 | 77 | 72 |
| 3..... | 46 | 39 | 15 | 3.3 | 41 | 6.1 | 70 | 90 | 180 | 67 | 60 | 123 |
| 4..... | 33 | 31 | 20 | 3.0 | 10 | 5.8 | 70 | 115 | 172 | 48 | 52 | 60 |
| 5..... | 25 | 19 | 22 | 3.0 | 6 | 6.5 | 60 | 109 | 180 | 106 | 50 | 20 |
| 6..... | 20 | 13 | 8.4 | 3.3 | 3.7 | 12 | 72 | 106 | 187 | 70 | 57 | 16 |
| 7..... | 25 | 16 | 11 | 4.4 | 3.6 | 12 | 80 | 98 | 50 | 39 | 60 | 14 |
| 8..... | 39 | 25 | 4.2 | 2.8 | 3.5 | 8.4 | 35 | 103 | 274 | 26 | 48 | 19 |
| 9..... | 39 | 25 | 3.3 | 3.3 | 3.3 | 16 | 26 | 106 | 232 | 19 | 28 | 37 |
| 10..... | 37 | 28 | 5.8 | 3.3 | 3.0 | 10 | 19 | 109 | 158 | 16 | 35 | 120 |
| 11..... | 23 | 28 | 3.9 | 2.8 | 3.2 | 8.4 | 19 | 109 | 123 | 23 | 39 | 274 |
| 12..... | 17 | 23 | 6.1 | 2.1 | 3.4 | 7.3 | 7.7 | 109 | 115 | 6.1 | 42 | 37 |
| 13..... | 28 | 23 | 4.2 | 12 | 3.3 | 35 | 19 | 112 | 109 | 13 | 57 | 90 |
| 14..... | 26 | 28 | 3.6 | 10 | 3.9 | 19 | 15 | 112 | 112 | 42 | 31 | 145 |
| 15..... | 25 | 33 | 3.6 | 8 | 4.4 | 13 | 12 | 115 | 120 | 64 | 26 | 62 |
| 16..... | 16 | 29 | 3.9 | 18 | 4.4 | 15 | 17 | 112 | 132 | 103 | 28 | 46 |
| 17..... | 17 | 23 | 6.9 | 17 | 5.0 | 23 | 11 | 129 | 120 | 90 | 115 | 35 |
| 18..... | 22 | 15 | 4.7 | 15 | 4.7 | 8.8 | 6.9 | 172 | 100 | 64 | 151 | 42 |
| 19..... | 20 | 14 | 4.2 | 10 | 3.3 | 10 | 5.8 | 216 | 100 | 72 | 142 | 52 |
| 20..... | 20 | 9.5 | 4.4 | 8 | 3.6 | 19 | 5.8 | 287 | 85 | 54 | 148 | 62 |
| 21..... | 17 | 8.4 | 3.9 | 35 | 9.5 | 26 | 60 | 253 | 82 | 54 | 151 | 60 |
| 22..... | 16 | 9.5 | 3.6 | 42 | 8.4 | 44 | 129 | 123 | 100 | 60 | 132 | 54 |
| 23..... | 17 | 11 | 3.9 | 40 | 6.5 | 64 | 148 | 187 | 103 | 93 | 253 | 57 |
| 24..... | 23 | 12 | 3.0 | 35 | 2.8 | 72 | 148 | 292 | 98 | 154 | 148 | 42 |
| 25..... | 16 | 50 | 3.0 | 30 | 3.0 | 72 | 158 | 253 | 138 | 109 | 90 | 7.7 |
| 26..... | 28 | 54 | 5.0 | 28 | 2.8 | 80 | 195 | 232 | 74 | 95 | 90 | 5.8 |
| 27..... | 50 | 57 | 4.7 | 30 | 4.2 | 90 | 191 | 207 | 64 | 118 | 72 | 4.7 |
| 28..... | 46 | 62 | 3.3 | 34 | 5.0 | 93 | 199 | 195 | 54 | 126 | 52 | 4.4 |
| 29..... | 46 | 46 | 2.8 | 35 | 6.5 | 82 | 168 | 203 | 42 | 100 | 42 | 4.7 |
| 30..... | 77 | 23 | 3.0 | 37 | .... | 60 | 148 | 203 | 33 | 57 | 42 | 4.4 |
| 31..... | 100 | .... | 3.0 | 39 | .... | 62 | .... | 199 | .... | 48 | 52 | .... |
| Total | 982 | 921.4 | 205.4 | 539 | 242.0 | 994.9 | 2229.2 | 4859 | 3747 | 2066 | 2415 | 1732 |
| Mean... | 31.7 | 30.7 | 6.63 | 17.4 | 8.34 | 32.1 | 74.3 | 157 | 125 | 66.6 | 77.9 | 57.8 |
| Max... | 100 | 95 | 22 | 42 | 41 | 93 | 199 | 292 | 274 | 154 | 253 | 274 |
| Min... | 16 | 8.4 | 2.8 | 2.8 | 2.8 | 5.8 | 5.8 | 85 | 33 | 13 | 26 | 4.4 |
| Acre-ft. | 1950 | 1830 | 407 | 1070 | 480 | 1970 | 4420 | 9640 | 7430 | 4100 | 4790 | 3440 |

Total run-off for water year 1939-40=41,530 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Denver, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|-------|
| 1..... | 430 | 372 | 328 | 210 | 147 | 129 | 676 | 856 | 742 | 201 | 388 | 166 |
| 2..... | 406 | 418 | 350 | 230 | 87 | 190 | 717 | 734 | 693 | 179 | 366 | 76 |
| 3..... | 406 | 474 | 281 | 225 | 87 | 186 | 742 | 468 | 598 | 166 | 317 | 95 |
| 4..... | 372 | 455 | 266 | 235 | 87 | 178 | 830 | 709 | 401 | 282 | 282 | 102 |
| 5..... | 372 | 494 | 256 | 225 | 98 | 166 | 847 | 598 | 271 | 242 | 302 | 99 |
| 6..... | 401 | 468 | 281 | 215 | 119 | 166 | 847 | 474 | 159 | 166 | 277 | 80 |
| 7..... | 383 | 338 | 242 | 200 | 133 | 246 | 838 | 500 | 119 | 197 | 188 | 99 |
| 8..... | 406 | 328 | 261 | 205 | 103 | 576 | 742 | 514 | 222 | 282 | 170 | 88 |
| 9..... | 534 | 412 | 242 | 210 | 59 | 1490 | 725 | 481 | 360 | 349 | 192 | 84 |
| 10..... | 520 | 442 | 232 | 215 | 61 | 2340 | 709 | 481 | 377 | 377 | 140 | 73 |
| 11..... | 455 | 377 | 222 | 180 | 101 | 2180 | 660 | 548 | 372 | 312 | 133 | 52 |
| 12..... | 468 | 350 | 182 | 155 | 147 | 693 | 636 | 621 | 390 | 219 | 99 | 34 |
| 13..... | 418 | 281 | 129 | 165 | 190 | 591 | 668 | 760 | 440 | 228 | 73 | 31 |
| 14..... | 383 | 266 | 140 | 160 | 190 | 975 | 709 | 751 | 478 | 257 | 58 | 31 |
| 15..... | 366 | 276 | 218 | 155 | 186 | 548 | 777 | 760 | 452 | 214 | 48 | 66 |
| 16..... | 350 | 328 | 256 | 143 | 210 | 395 | 882 | 760 | 371 | 133 | 52 | 76 |
| 17..... | 350 | 333 | 198 | 123 | 151 | 317 | 865 | 725 | 297 | 76 | 80 | 69 |
| 18..... | 338 | 296 | 151 | 140 | 162 | 317 | 725 | 676 | 247 | 99 | 114 | 73 |
| 19..... | 286 | 276 | 206 | 166 | 206 | 709 | 742 | 629 | 247 | 179 | 125 | 84 |
| 20..... | 242 | 276 | 227 | 151 | 129 | 1060 | 856 | 629 | 302 | 232 | 148 | 80 |
| 21..... | 210 | 256 | 214 | 159 | 123 | 2300 | 856 | 621 | 277 | 197 | 140 | 88 |
| 22..... | 291 | 222 | 206 | 159 | 147 | 1700 | 795 | 583 | 201 | 91 | 88 | 76 |
| 23..... | 271 | 182 | 178 | 166 | 198 | 1720 | 847 | 561 | 157 | 48 | 55 | 58 |
| 24..... | 276 | 206 | 174 | 140 | 206 | 1900 | 1000 | 598 | 153 | 66 | 41 | 55 |
| 25..... | 291 | 222 | 190 | 143 | 194 | 1630 | 777 | 614 | 197 | 48 | 31 | 58 |
| 26..... | 261 | 206 | 159 | 119 | 198 | 1360 | 847 | 994 | 228 | 44 | 48 | 73 |
| 27..... | 246 | 237 | 116 | 129 | 72 | 1100 | 725 | 777 | 282 | 157 | 66 | 62 |
| 28..... | 266 | 256 | 162 | 133 | 126 | 994 | 760 | 777 | 242 | 317 | 88 | 58 |
| 29..... | 360 | 246 | 186 | 174 | .... | 856 | 795 | 701 | 201 | 210 | 102 | 76 |
| 30..... | 366 | 302 | 190 | 174 | .... | 734 | 874 | 541 | 223 | 297 | 106 | 76 |
| 31..... | 383 | .... | 198 | 162 | .... | 652 | .... | 554 | .... | 429 | 144 | .... |
| Total | 11107 | 9595 | 6641 | 5366 | 3917 | 28398 | 23469 | 19995 | 9699 | 6294 | 4461 | 2238 |
| Mean. | 358 | 320 | 214 | 173 | 140 | 916 | 782 | 645 | 323 | 203 | 144 | 74.6 |
| Max. | 534 | 494 | 350 | 235 | 210 | 2340 | 1000 | 994 | 742 | 429 | 388 | 166 |
| Min. | 210 | 182 | 116 | 119 | 59 | 129 | 636 | 468 | 119 | 44 | 31 | 31 |
| Acre-ft. | 22030 | 19030 | 13170 | 10640 | 7770 | 56330 | 46550 | 39660 | 19240 | 12480 | 8850 | 4440 |

Total run-off for water year 1938-39=260,190 acre-feet.

Discharge of South Platte River at Denver, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|-------|-------|-------|-------|------|------|-------|
| 1..... | 76 | 178 | 76 | 67 | 127 | 140 | 170 | 278 | 346 | 60 | 92 | 69 |
| 2..... | 66 | 170 | 70 | 65 | 118 | 124 | 166 | 214 | 315 | 94 | 96 | 84 |
| 3..... | 58 | 144 | 60 | 67 | 99 | 118 | 174 | 194 | 299 | 380 | 94 | 114 |
| 4..... | 62 | 116 | 61 | 69 | 86 | 121 | 174 | 206 | 284 | 120 | 69 | 284 |
| 5..... | 62 | 102 | 66 | 67 | 82 | 118 | 166 | 206 | 284 | 107 | 72 | 104 |
| 6..... | 55 | 79 | 62 | 27 | 72 | 178 | 240 | 198 | 480 | 92 | 72 | 186 |
| 7..... | 44 | 74 | 64 | 36 | 72 | 148 | 258 | 194 | 392 | 72 | 86 | 315 |
| 8..... | 52 | 69 | 86 | 42 | 69 | 152 | 202 | 232 | 304 | 65 | 77 | 127 |
| 8..... | 148 | 77 | 94 | 53 | 60 | 166 | 163 | 240 | 398 | 53 | 60 | 202 |
| 10..... | 117 | 86 | 90 | 67 | 62 | 170 | 219 | 194 | 374 | 49 | 57 | 620 |
| 11..... | 91 | 89 | 82 | 65 | 57 | 159 | 210 | 174 | 258 | 60 | 53 | 415 |
| 12..... | 73 | 86 | 76 | 60 | 57 | 140 | 163 | 166 | 216 | 121 | 51 | 403 |
| 13..... | 69 | 77 | 72 | 55 | 47 | 118 | 148 | 194 | 178 | 96 | 47 | 227 |
| 14..... | 84 | 82 | 74 | 51 | 57 | 124 | 148 | 186 | 152 | 62 | 42 | 253 |
| 15..... | 73 | 82 | 76 | 57 | 62 | 148 | 137 | 163 | 144 | 69 | 40 | 244 |
| 16..... | 69 | 79 | 74 | 82 | 53 | 152 | 133 | 159 | 137 | 89 | 38 | 148 |
| 17..... | 66 | 77 | 70 | 82 | 53 | 178 | 166 | 227 | 127 | 118 | 55 | 116 |
| 18..... | 66 | 74 | 64 | 68 | 53 | 178 | 190 | 448 | 116 | 84 | 144 | 130 |
| 19..... | 66 | 60 | 58 | 72 | 60 | 170 | 190 | 521 | 86 | 65 | 148 | 174 |
| 20..... | 65 | 60 | 54 | 78 | 57 | 166 | 166 | 480 | 62 | 77 | 155 | 159 |
| 21..... | 65 | 60 | 60 | 72 | 51 | 182 | 178 | 636 | 62 | 92 | 163 | 278 |
| 22..... | 60 | 60 | 57 | 67 | 53 | 210 | 240 | 448 | 72 | 82 | 273 | 454 |
| 23..... | 60 | 57 | 51 | 72 | 62 | 236 | 304 | 320 | 99 | 79 | 454 | 214 |
| 24..... | 62 | 60 | 53 | 77 | 67 | 244 | 346 | 494 | 102 | 113 | 236 | 232 |
| 25..... | 65 | 65 | 67 | 64 | 92 | 240 | 369 | 467 | 92 | 124 | 194 | 198 |
| 26..... | 62 | 77 | 62 | 76 | 92 | 249 | 448 | 441 | 99 | 124 | 315 | 159 |
| 27..... | 82 | 67 | 38 | 90 | 86 | 253 | 415 | 428 | 57 | 110 | 130 | 118 |
| 28..... | 113 | 72 | 53 | 102 | 86 | 236 | 403 | 403 | 67 | 236 | 96 | 110 |
| 29..... | 148 | 79 | 69 | 113 | 96 | 223 | 398 | 409 | 67 | 174 | 77 | 96 |
| 30..... | 148 | 80 | 72 | 124 | .... | 194 | 330 | 454 | 57 | 107 | 67 | 133 |
| 31..... | 182 | .... | 72 | 130 | .... | 178 | .... | 386 | .... | 92 | 67 | .... |
| Total | 2509 | 2538 | 2083 | 2217 | 2088 | 5413 | 7014 | 9760 | 5726 | 3276 | 3620 | 6396 |
| Mean. | 80.9 | 84.6 | 67.2 | 71.5 | 72.0 | 175 | 234 | 315 | 191 | 106 | 117 | 213 |
| Max. | 182 | 178 | 94 | 130 | 127 | 253 | 448 | 636 | 480 | 380 | 454 | 620 |
| Min. | 44 | 57 | 38 | 27 | 47 | 118 | 133 | 159 | 57 | 49 | 38 | 69 |
| Acre-ft. | 4980 | 5030 | 4130 | 4400 | 4140 | 10740 | 13910 | 19360 | 11360 | 6500 | 7180 | 12690 |

Total run-off for water year 1939-40=104,420 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Henderson, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|------|-------|
| 1. . . . | 301 | 52 | 558 | 242 | 260 | 246 | 663 | 1010 | 1100 | 229 | 298 | 145 |
| 2. . . . | 350 | 57 | 558 | 306 | 150 | 237 | 717 | 810 | 1190 | 141 | 284 | 106 |
| 3. . . . | 237 | 148 | 511 | 296 | 130 | 237 | 800 | 618 | 1150 | 133 | 298 | 106 |
| 4. . . . | 261 | 192 | 459 | 306 | 125 | 246 | 860 | 564 | 890 | 165 | 241 | 122 |
| 5. . . . | 317 | 237 | 440 | 275 | 130 | 242 | 762 | 627 | 690 | 218 | 224 | 126 |
| 6. . . . | 379 | 280 | 453 | 270 | 140 | 237 | 840 | 537 | 501 | 112 | 270 | 122 |
| 7. . . . | 416 | 322 | 422 | 256 | 150 | 242 | 1100 | 645 | 319 | 87 | 218 | 141 |
| 8. . . . | 434 | 296 | 403 | 265 | 130 | 328 | 1170 | 717 | 305 | 100 | 186 | 137 |
| 9. . . . | 498 | 280 | 422 | 286 | 72 | 1460 | 1120 | 492 | 456 | 133 | 170 | 116 |
| 10. . . . | 572 | 350 | 391 | 301 | 72 | 3280 | 1010 | 438 | 582 | 181 | 122 | 87 |
| 11. . . . | 362 | 586 | 397 | 251 | 140 | 4150 | 850 | 600 | 681 | 191 | 122 | 78 |
| 12. . . . | 301 | 579 | 362 | 215 | 160 | 1600 | 790 | 780 | 753 | 93 | 78 | 81 |
| 13. . . . | 181 | 491 | 328 | 261 | 200 | 1100 | 820 | 1090 | 663 | 72 | 87 | 75 |
| 14. . . . | 123 | 440 | 296 | 256 | 180 | 1050 | 890 | 930 | 735 | 112 | 69 | 84 |
| 15. . . . | 114 | 466 | 328 | 251 | 160 | 744 | 1200 | 910 | 771 | 145 | 84 | 87 |
| 16. . . . | 109 | 491 | 373 | 204 | 165 | 438 | 1280 | 940 | 744 | 93 | 87 | 106 |
| 17. . . . | 103 | 322 | 379 | 211 | 165 | 326 | 1200 | 920 | 447 | 103 | 66 | 96 |
| 18. . . . | 103 | 280 | 350 | 232 | 150 | 235 | 1040 | 1000 | 396 | 87 | 69 | 103 |
| 19. . . . | 103 | 261 | 339 | 256 | 170 | 1050 | 930 | 708 | 312 | 84 | 84 | 119 |
| 20. . . . | 106 | 246 | 416 | 251 | 190 | 2250 | 900 | 800 | 429 | 109 | 100 | 109 |
| 21. . . . | 95 | 228 | 373 | 260 | 175 | 3250 | 840 | 800 | 636 | 112 | 137 | 96 |
| 22. . . . | 100 | 207 | 345 | 260 | 160 | 2640 | 770 | 744 | 546 | 93 | 119 | 109 |
| 23. . . . | 109 | 200 | 345 | 270 | 180 | 2350 | 730 | 900 | 356 | 100 | 96 | 93 |
| 24. . . . | 100 | 184 | 296 | 290 | 200 | 2110 | 750 | 960 | 305 | 103 | 87 | 57 |
| 25. . . . | 87 | 232 | 306 | 280 | 180 | 1850 | 672 | 790 | 372 | 93 | 90 | 87 |
| 26. . . . | 78 | 416 | 270 | 290 | 190 | 1360 | 717 | 1500 | 456 | 93 | 93 | 112 |
| 27. . . . | 76 | 434 | 223 | 290 | 160 | 1070 | 708 | 1080 | 429 | 96 | 122 | 109 |
| 28. . . . | 70 | 485 | 270 | 305 | 200 | 1070 | 880 | 890 | 333 | 137 | 106 | 100 |
| 29. . . . | 57 | 459 | 219 | 315 | .... | 880 | 810 | 840 | 291 | 100 | 122 | 119 |
| 30. . . . | 56 | 504 | 232 | 320 | .... | 780 | 940 | 690 | 247 | 100 | 137 | 112 |
| 31. . . . | 52 | .... | 246 | 300 | .... | 645 | .... | 546 | .... | 258 | 141 | .... |
| Total | 6250 | 9725 | 11310 | 8371 | 4484 | 37703 | 26759 | 24876 | 17085 | 3873 | 4407 | 3140 |
| Mean. | 202 | 324 | 365 | 270 | 160 | 1216 | 892 | 802 | 570 | 125 | 142 | 105 |
| Max. | 572 | 586 | 558 | 320 | 260 | 4150 | 1280 | 1500 | 1190 | 258 | 298 | 145 |
| Min. | 52 | 52 | 219 | 204 | 72 | 235 | 663 | 438 | 247 | 72 | 66 | 57 |
| Acres-ft. | 12400 | 19290 | 22430 | 16600 | 8890 | 74780 | 53080 | 49340 | 33890 | 7680 | 8740 | 6230 |

Total run-off for water year 1938-39=313,350 acre-feet.

Discharge of South Platte River at Henderson, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|-------|-------|-------|-------|-------|------|-------|
| 1. . . . | 96 | 137 | 119 | 81 | 130 | 206 | 109 | 219 | 434 | 184 | 127 | 107 |
| 2. . . . | 90 | 133 | 112 | 84 | 124 | 275 | 109 | 192 | 462 | 290 | 124 | 100 |
| 3. . . . | 75 | 112 | 133 | 75 | 110 | 219 | 112 | 161 | 579 | 1010 | 146 | 114 |
| 4. . . . | 66 | 75 | 145 | 66 | 90 | 228 | 107 | 167 | 642 | 348 | 132 | 280 |
| 5. . . . | 63 | 44 | 152 | 60 | 86 | 237 | 80 | 170 | 749 | 246 | 122 | 135 |
| 6. . . . | 63 | 32 | 112 | 54 | 80 | 295 | 97 | 184 | 668 | 232 | 119 | 127 |
| 7. . . . | 63 | 25 | 103 | 48 | 78 | 300 | 140 | 164 | 469 | 181 | 119 | 506 |
| 8. . . . | 69 | 34 | 145 | 58 | 76 | 285 | 97 | 228 | 237 | 135 | 119 | 124 |
| 9. . . . | 109 | 66 | 165 | 67 | 70 | 330 | 140 | 202 | 588 | 92 | 107 | 114 |
| 10. . . . | 84 | 100 | 149 | 72 | 78 | 342 | 152 | 152 | 642 | 63 | 107 | 989 |
| 11. . . . | 50 | 145 | 119 | 78 | 76 | 342 | 132 | 137 | 427 | 84 | 104 | 396 |
| 12. . . . | 34 | 106 | 103 | 87 | 72 | 280 | 224 | 146 | 408 | 152 | 112 | 354 |
| 13. . . . | 25 | 55 | 96 | 76 | 72 | 265 | 132 | 167 | 420 | 158 | 117 | 206 |
| 14. . . . | 25 | 47 | 103 | 72 | 68 | 265 | 112 | 170 | 469 | 114 | 109 | 250 |
| 15. . . . | 25 | 50 | 109 | 72 | 68 | 312 | 107 | 140 | 490 | 107 | 88 | 348 |
| 16. . . . | 30 | 47 | 93 | 74 | 65 | 330 | 119 | 127 | 384 | 146 | 88 | 181 |
| 17. . . . | 50 | 42 | 66 | 78 | 62 | 324 | 149 | 206 | 402 | 152 | 95 | 130 |
| 18. . . . | 42 | 39 | 60 | 54 | 104 | 384 | 114 | 514 | 360 | 155 | 92 | 124 |
| 19. . . . | 39 | 32 | 55 | 59 | 130 | 408 | 161 | 514 | 295 | 177 | 84 | 117 |
| 20. . . . | 37 | 42 | 50 | 62 | 135 | 427 | 161 | 538 | 306 | 146 | 90 | 199 |
| 21. . . . | 32 | 30 | 69 | 52 | 137 | 448 | 219 | 893 | 324 | 109 | 95 | 722 |
| 22. . . . | 37 | 25 | 63 | 40 | 146 | 448 | 285 | 579 | 356 | 122 | 109 | 731 |
| 23. . . . | 27 | 25 | 55 | 44 | 163 | 455 | 336 | 330 | 318 | 122 | 408 | 300 |
| 24. . . . | 23 | 30 | 72 | 51 | 158 | 455 | 342 | 390 | 402 | 119 | 170 | 280 |
| 25. . . . | 34 | 30 | 55 | 47 | 164 | 498 | 318 | 476 | 280 | 119 | 127 | 506 |
| 26. . . . | 47 | 37 | 63 | 55 | 167 | 448 | 420 | 514 | 241 | 114 | 378 | 177 |
| 27. . . . | 52 | 66 | 75 | 64 | 167 | 215 | 414 | 554 | 184 | 107 | 124 | 106 |
| 28. . . . | 66 | 119 | 84 | 78 | 170 | 181 | 324 | 538 | 127 | 112 | 124 | 72 |
| 29. . . . | 87 | 137 | 87 | 90 | 174 | 146 | 306 | 522 | 155 | 295 | 127 | 53 |
| 30. . . . | 170 | 152 | 75 | 110 | .... | 127 | 260 | 530 | 170 | 92 | 117 | 100 |
| 31. . . . | 186 | .... | 87 | 125 | .... | 119 | .... | 469 | .... | 119 | 112 | .... |
| Total | 1896 | 2014 | 2974 | 2133 | 3218 | 9594 | 5778 | 10293 | 11968 | 5602 | 4092 | 7942 |
| Mean. | 61.2 | 67.1 | 95.9 | 68.8 | 111 | 309 | 193 | 332 | 399 | 181 | 132 | 265 |
| Max. | 186 | 152 | 165 | 125 | 174 | 498 | 420 | 893 | 749 | 1010 | 408 | 980 |
| Min. | 23 | 25 | 50 | 40 | 62 | 119 | 80 | 127 | 127 | 63 | 84 | 53 |
| Acres-ft. | 3760 | 3990 | 5900 | 4230 | 6380 | 19030 | 11460 | 20420 | 23740 | 11110 | 8120 | 15750 |

Total run-off for water year 1939-40=133,890 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Fort Lupton, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| 1. . . . | 394 | 130 | 635 | 344 | 407 | 288 | 793 | 695 | 886 | 240 | 235 | 62 |
| 2. . . . | 454 | 137 | 635 | 394 | 219 | 356 | 842 | 606 | 1050 | 200 | 213 | 54 |
| 3. . . . | 320 | 257 | 590 | 414 | 174 | 461 | 886 | 473 | 1080 | 149 | 244 | 43 |
| 4. . . . | 362 | 309 | 482 | 420 | 188 | 433 | 934 | 378 | 886 | 140 | 181 | 57 |
| 5. . . . | 420 | 362 | 475 | 362 | 188 | 400 | 902 | 372 | 751 | 200 | 159 | 57 |
| 6. . . . | 447 | 394 | 461 | 350 | 183 | 362 | 942 | 192 | 626 | 170 | 189 | 62 |
| 7. . . . | 518 | 400 | 440 | 350 | 196 | 489 | 1160 | 383 | 473 | 100 | 173 | 60 |
| 8. . . . | 387 | 368 | 427 | 350 | 188 | 752 | 1190 | 454 | 383 | 111 | 140 | 86 |
| 9. . . . | 440 | 427 | 454 | 362 | 104 | 2 20 | 1120 | 372 | 424 | 120 | 104 | 65 |
| 10. . . . | 518 | 468 | 433 | 368 | 104 | 3750 | 1120 | 287 | 486 | 130 | 94 | 40 |
| 11. . . . | 326 | 680 | 427 | 338 | 196 | 4220 | 966 | 389 | 566 | 146 | 75 | 48 |
| 12. . . . | 262 | 680 | 394 | 304 | 214 | 2200 | 902 | 460 | 620 | 116 | 54 | 48 |
| 13. . . . | 188 | 574 | 350 | 338 | 248 | 1310 | 863 | 716 | 560 | 63 | 60 | 48 |
| 14. . . . | 140 | 510 | 304 | 338 | 228 | 1340 | 856 | 653 | 553 | 52 | 49 | 50 |
| 15. . . . | 127 | 558 | 374 | 320 | 205 | 1160 | 1020 | 653 | 593 | 98 | 58 | 54 |
| 16. . . . | 137 | 590 | 482 | 298 | 210 | 725 | 1210 | 626 | 633 | 88 | 48 | 62 |
| 17. . . . | 158 | 394 | 447 | 278 | 210 | 574 | 1100 | 653 | 442 | 65 | 50 | 55 |
| 18. . . . | 196 | 314 | 368 | 293 | 188 | 468 | 942 | 688 | 334 | 58 | 48 | 52 |
| 19. . . . | 214 | 298 | 362 | 338 | 201 | 966 | 863 | 533 | 334 | 54 | 63 | 55 |
| 20. . . . | 233 | 283 | 461 | 350 | 248 | 1900 | 835 | 500 | 344 | 62 | 60 | 57 |
| 21. . . . | 210 | 278 | 447 | 350 | 205 | 2510 | 793 | 553 | 454 | 81 | 62 | 52 |
| 22. . . . | 174 | 262 | 433 | 356 | 192 | 2420 | 723 | 493 | 454 | 73 | 72 | 58 |
| 23. . . . | 174 | 248 | 427 | 374 | 219 | 1940 | 674 | 533 | 318 | 60 | 49 | 63 |
| 24. . . . | 155 | 210 | 387 | 400 | 278 | 1700 | 744 | 620 | 235 | 60 | 49 | 43 |
| 25. . . . | 143 | 210 | 427 | 387 | 228 | 1470 | 660 | 593 | 235 | 68 | 48 | 37 |
| 26. . . . | 140 | 510 | 407 | 414 | 238 | 1170 | 566 | 886 | 287 | 62 | 43 | 70 |
| 27. . . . | 130 | 510 | 390 | 400 | 205 | 1080 | 546 | 894 | 297 | 65 | 50 | 58 |
| 28. . . . | 122 | 550 | 374 | 440 | 252 | 1040 | 620 | 716 | 278 | 75 | 46 | 52 |
| 29. . . . | 104 | 542 | 320 | 433 | ... | 934 | 626 | 681 | 254 | 79 | 44 | 66 |
| 30. . . . | 92 | 574 | 293 | 454 | ... | 856 | 647 | 606 | 231 | 49 | 57 | 77 |
| 31. . . . | 100 | ... | 332 | 454 | ... | 800 | ... | 500 | ... | 118 | 55 | ... |
| Total | 7785 | 12097 | 13238 | 11371 | 5916 | 40094 | 26045 | 17158 | 15067 | 3152 | 2872 | 1691 |
| Mean. | 251 | 401 | 427 | 367 | 211 | 1293 | 868 | 553 | 502 | 102 | 92.6 | 56.4 |
| Max. | 518 | 680 | 635 | 454 | 407 | 4220 | 1210 | 894 | 1080 | 240 | 244 | 86 |
| Min. | 92 | 130 | 293 | 278 | 104 | 288 | 546 | 192 | 231 | 49 | 43 | 37 |
| Acre-ft. | 15440 | 23860 | 26260 | 22550 | 11730 | 79530 | 51660 | 34030 | 29880 | 6250 | 5700 | 3350 |

Total run-off for water year 1938-39=310,200 acre-feet.

Discharge of South Platte River at Fort Lupton, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|-------|-------|-------|-------|------|------|-------|
| 1. . . . | 72 | 120 | 130 | 116 | 149 | 328 | 87 | 229 | 248 | 116 | 54 | 50 |
| 2. . . . | 44 | 100 | 116 | 108 | 146 | 412 | 89 | 180 | 280 | 167 | 40 | 54 |
| 3. . . . | 46 | 82 | 149 | 118 | 140 | 389 | 90 | 139 | 339 | 960 | 64 | 70 |
| 4. . . . | 43 | 63 | 162 | 116 | 130 | 339 | 87 | 110 | 405 | 492 | 70 | 177 |
| 5. . . . | 38 | 52 | 204 | 108 | 120 | 339 | 74 | 104 | 486 | 272 | 48 | 162 |
| 6. . . . | 31 | 38 | 159 | 90 | 104 | 394 | 70 | 104 | 452 | 226 | 58 | 104 |
| 7. . . . | 30 | 20 | 113 | 79 | 106 | 448 | 110 | 104 | 452 | 187 | 58 | 476 |
| 8. . . . | 40 | 21 | 136 | 70 | 108 | 418 | 83 | 132 | 187 | 144 | 66 | 142 |
| 9. . . . | 46 | 37 | 156 | 77 | 102 | 448 | 68 | 177 | 379 | 89 | 56 | 64 |
| 10. . . . | 82 | 44 | 159 | 82 | 106 | 412 | 83 | 154 | 510 | 54 | 48 | 965 |
| 11. . . . | 48 | 96 | 166 | 87 | 100 | 383 | 120 | 114 | 400 | 38 | 50 | 442 |
| 12. . . . | 31 | 116 | 152 | 91 | 88 | 355 | 173 | 92 | 349 | 76 | 54 | 384 |
| 13. . . . | 15 | 49 | 133 | 94 | 81 | 344 | 197 | 92 | 364 | 125 | 56 | 284 |
| 14. . . . | 10 | 37 | 140 | 80 | 88 | 318 | 122 | 122 | 379 | 74 | 50 | 240 |
| 15. . . . | 10 | 36 | 159 | 83 | 92 | 339 | 110 | 85 | 425 | 38 | 51 | 420 |
| 16. . . . | 12 | 36 | 156 | 86 | 98 | 328 | 102 | 68 | 384 | 81 | 52 | 260 |
| 17. . . . | 14 | 31 | 123 | 88 | 90 | 313 | 134 | 108 | 320 | 80 | 51 | 180 |
| 18. . . . | 28 | 30 | 104 | 89 | 166 | 350 | 137 | 400 | 306 | 75 | 52 | 147 |
| 19. . . . | 24 | 28 | 100 | 70 | 222 | 313 | 139 | 400 | 280 | 104 | 52 | 152 |
| 20. . . . | 25 | 25 | 94 | 69 | 235 | 297 | 144 | 374 | 244 | 120 | 57 | 215 |
| 21. . . . | 22 | 31 | 98 | 68 | 244 | 282 | 154 | 546 | 248 | 72 | 57 | 789 |
| 22. . . . | 25 | 28 | 100 | 68 | 244 | 308 | 197 | 516 | 252 | 57 | 62 | 768 |
| 23. . . . | 20 | 26 | 92 | 69 | 240 | 334 | 320 | 306 | 240 | 56 | 236 | 430 |
| 24. . . . | 17 | 31 | 90 | 70 | 263 | 350 | 364 | 252 | 260 | 48 | 190 | 320 |
| 25. . . . | 17 | 28 | 81 | 58 | 282 | 350 | 339 | 374 | 233 | 54 | 70 | 516 |
| 26. . . . | 25 | 30 | 88 | 63 | 302 | 350 | 400 | 364 | 167 | 50 | 240 | 306 |
| 27. . . . | 31 | 43 | 63 | 70 | 313 | 173 | 458 | 374 | 154 | 54 | 132 | 173 |
| 28. . . . | 26 | 116 | 86 | 80 | 297 | 134 | 394 | 359 | 100 | 52 | 63 | 137 |
| 29. . . . | 57 | 136 | 113 | 95 | 308 | 118 | 384 | 329 | 81 | 154 | 70 | 120 |
| 30. . . . | 166 | 140 | 130 | 120 | ... | 104 | 284 | 374 | 85 | 60 | 60 | 106 |
| 31. . . . | 159 | ... | 133 | 140 | ... | 92 | ... | 320 | ... | 35 | 48 | ... |
| Total | 1254 | 1670 | 3885 | 2702 | 4964 | 9862 | 5513 | 7402 | 9009 | 4210 | 2315 | 8653 |
| Mean. | 40.5 | 55.7 | 125 | 87.2 | 171 | 318 | 184 | 239 | 300 | 136 | 74.7 | 288 |
| Max. | 166 | 140 | 204 | 140 | 313 | 448 | 458 | 546 | 510 | 960 | 240 | 965 |
| Min. | 10 | 20 | 63 | 58 | 81 | 92 | 68 | 68 | 81 | 35 | 40 | 50 |
| Acre-ft. | 2490 | 3310 | 7710 | 5360 | 9850 | 19560 | 10930 | 14680 | 17870 | 8350 | 4590 | 17160 |

Total run-off for water year 1939-40=121,900 acre-feet.

Unless other wise noted, all discharges are in cubic feet per second.

Discharge of South Platte River Near Kersey, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-------------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|------|-------|
| 1. | 369 | 536 | 1010 | 760 | 804 | 573 | 1380 | 1320 | 275 | 98 | 129 | 98 |
| 2. | 423 | 542 | 1050 | 760 | 754 | 638 | 1350 | 1280 | 874 | 98 | 129 | 92 |
| 3. | 438 | 600 | 1080 | 816 | 643 | 706 | 1370 | 1080 | 1100 | 92 | 134 | 88 |
| 4. | 419 | 666 | 1020 | 848 | 621 | 779 | 1370 | 855 | 1070 | 92 | 134 | 87 |
| 5. | 382 | 760 | 968 | 842 | 632 | 742 | 1380 | 589 | 855 | 88 | 134 | 94 |
| 6. | 328 | 842 | 961 | 804 | 600 | 682 | 1380 | 419 | 557 | 89 | 112 | 101 |
| 7. | 353 | 900 | 982 | 804 | 605 | 677 | 1470 | 275 | 289 | 118 | 99 | 104 |
| 8. | 447 | 894 | 982 | 810 | 605 | 836 | 1610 | 244 | 159 | 122 | 98 | 112 |
| 9. | 531 | 907 | 975 | 842 | 600 | 1230 | 1600 | 230 | 116 | 124 | 95 | 134 |
| 10. | 616 | 954 | 968 | 829 | 600 | 1910 | 1560 | 172 | 127 | 96 | 91 | 151 |
| 11. | 694 | 989 | 947 | 823 | 590 | 2780 | 1550 | 159 | 120 | 96 | 91 | 154 |
| 12. | 706 | 1090 | 920 | 810 | 590 | 3450 | 1470 | 134 | 178 | 96 | 92 | 151 |
| 13. | 700 | 1100 | 855 | 798 | 580 | 2500 | 1420 | 164 | 233 | 95 | 94 | 108 |
| 14. | 627 | 1040 | 810 | 829 | 580 | 1850 | 1410 | 387 | 206 | 95 | 94 | 96 |
| 15. | 568 | 1010 | 855 | 804 | 578 | 1860 | 1530 | 348 | 164 | 91 | 106 | 98 |
| 16. | 542 | 1020 | 914 | 785 | 557 | 1630 | 1720 | 289 | 183 | 91 | 112 | 102 |
| 17. | 531 | 1050 | 947 | 760 | 542 | 1450 | 1810 | 227 | 206 | 89 | 118 | 98 |
| 18. | 536 | 933 | 887 | 760 | 568 | 1320 | 1750 | 203 | 159 | 91 | 118 | 98 |
| 19. | 583 | 881 | 810 | 810 | 589 | 1250 | 1640 | 167 | 122 | 92 | 146 | 95 |
| 20. | 621 | 848 | 823 | 829 | 506 | 1640 | 1600 | 124 | 112 | 89 | 156 | 95 |
| 21. | 654 | 810 | 907 | 823 | 481 | 2240 | 1590 | 178 | 108 | 87 | 132 | 96 |
| 22. | 649 | 798 | 907 | 823 | 516 | 2820 | 1530 | 106 | 102 | 87 | 98 | 95 |
| 23. | 638 | 785 | 874 | 791 | 531 | 2700 | 1490 | 99 | 96 | 86 | 94 | 96 |
| 24. | 632 | 754 | 836 | 791 | 578 | 2360 | 1530 | 91 | 92 | 84 | 96 | 101 |
| 25. | 616 | 736 | 829 | 823 | 627 | 2150 | 1580 | 94 | 96 | 84 | 94 | 106 |
| 26. | 583 | 736 | 810 | 829 | 627 | 1940 | 1330 | 96 | 96 | 86 | 91 | 101 |
| 27. | 568 | 861 | 767 | 829 | 688 | 1770 | 1370 | 320 | 94 | 91 | 98 | 96 |
| 28. | 557 | 927 | 660 | 823 | 547 | 1760 | 1300 | 400 | 83 | 94 | 95 | 99 |
| 29. | 568 | 954 | 718 | 842 | .... | 1650 | 1340 | 348 | 84 | 112 | 95 | 114 |
| 30. | 568 | 961 | 700 | 816 | .... | 1540 | 1330 | 316 | 104 | 132 | 95 | 151 |
| 31. | 542 | .... | 718 | 816 | .... | 1450 | .... | 244 | .... | 134 | 95 | .... |
| Total | 16989 | 25884 | 27490 | 25129 | 16739 | 50883 | 44760 | 10888 | 8060 | 3019 | 3365 | 3211 |
| Mean. | 548 | 863 | 887 | 811 | 598 | 1641 | 1492 | 351 | 269 | 97.4 | 109 | 107 |
| Max. | 706 | 1100 | 1080 | 848 | 804 | 3450 | 1810 | 1320 | 1100 | 124 | 156 | 154 |
| Min. | 298 | 536 | 660 | 760 | 481 | 573 | 1300 | 91 | 83 | 84 | 91 | 87 |
| Acre-ft. | 33700 | 51340 | 54530 | 49840 | 33200 | 100900 | 88780 | 21600 | 15990 | 5990 | 6670 | 6370 |

Total run-off for water year 1938-39=468,910 acre-feet.

Discharge of South Platte River Near Kersey, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-------------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|-------|
| 1. | 159 | 197 | 254 | 476 | 521 | 600 | 378 | 95 | 58 | 81 | 71 | 66 |
| 2. | 156 | 189 | 289 | 476 | 526 | 627 | 344 | 89 | 61 | 83 | 68 | 62 |
| 3. | 151 | 194 | 344 | 471 | 501 | 660 | 320 | 83 | 61 | 149 | 68 | 63 |
| 4. | 149 | 194 | 316 | 462 | 501 | 654 | 312 | 80 | 61 | 1060 | 68 | 64 |
| 5. | 116 | 194 | 304 | 466 | 526 | 621 | 308 | 80 | 66 | 616 | 66 | 71 |
| 6. | 118 | 192 | 308 | 452 | 521 | 638 | 304 | 74 | 76 | 264 | 66 | 78 |
| 7. | 112 | 178 | 300 | 396 | 526 | 666 | 300 | 68 | 96 | 183 | 66 | 78 |
| 8. | 108 | 172 | 296 | 405 | 526 | 682 | 300 | 71 | 156 | 132 | 66 | 76 |
| 9. | 108 | 172 | 286 | 423 | 521 | 649 | 296 | 94 | 172 | 106 | 66 | 82 |
| 10. | 106 | 175 | 282 | 419 | 521 | 660 | 268 | 55 | 183 | 106 | 66 | 112 |
| 11. | 106 | 178 | 275 | 423 | 526 | 654 | 278 | 53 | 203 | 132 | 66 | 374 |
| 12. | 108 | 178 | 264 | 447 | 521 | 643 | 357 | 33 | 136 | 134 | 66 | 320 |
| 13. | 112 | 180 | 261 | 438 | 511 | 610 | 419 | 33 | 102 | 136 | 66 | 218 |
| 14. | 112 | 175 | 308 | 428 | 486 | 594 | 433 | 50 | 92 | 136 | 68 | 215 |
| 15. | 106 | 172 | 348 | 423 | 481 | 589 | 369 | 48 | 91 | 102 | 68 | 240 |
| 16. | 106 | 169 | 344 | 438 | 476 | 594 | 328 | 47 | 89 | 99 | 68 | 203 |
| 17. | 106 | 172 | 353 | 438 | 462 | 583 | 308 | 48 | 87 | 98 | 68 | 162 |
| 18. | 108 | 172 | 344 | 293 | 452 | 573 | 312 | 54 | 87 | 87 | 68 | 132 |
| 19. | 112 | 172 | 344 | 224 | 486 | 562 | 278 | 59 | 82 | 80 | 68 | 101 |
| 20. | 116 | 178 | 369 | 289 | 521 | 557 | 233 | 57 | 83 | 78 | 66 | 96 |
| 21. | 118 | 183 | 396 | 332 | 531 | 552 | 212 | 70 | 82 | 80 | 68 | 240 |
| 22. | 120 | 189 | 400 | 312 | 542 | 542 | 197 | 86 | 81 | 82 | 71 | 240 |
| 23. | 122 | 189 | 414 | 308 | 542 | 547 | 180 | 99 | 81 | 81 | 72 | 433 |
| 24. | 116 | 192 | 410 | 289 | 542 | 557 | 167 | 78 | 82 | 78 | 70 | 447 |
| 25. | 112 | 189 | 410 | 308 | 568 | 578 | 154 | 68 | 78 | 78 | 68 | 391 |
| 26. | 114 | 192 | 400 | 286 | 533 | 573 | 129 | 63 | 78 | 80 | 69 | 511 |
| 27. | 110 | 200 | 414 | 328 | 594 | 573 | 116 | 68 | 78 | 83 | 68 | 452 |
| 28. | 112 | 209 | 405 | 348 | 605 | 491 | 118 | 71 | 80 | 84 | 70 | 344 |
| 29. | 112 | 230 | 391 | 382 | 600 | 438 | 118 | 70 | 80 | 80 | 69 | 264 |
| 30. | 116 | 240 | 419 | 423 | .... | 414 | 102 | 63 | 80 | 77 | 69 | 312 |
| 31. | 192 | .... | 452 | 447 | .... | 391 | .... | 61 | .... | 75 | 66 | .... |
| Total | 3719 | 5616 | 10700 | 12040 | 15219 | 18072 | 7938 | 2078 | 2842 | 4740 | 2103 | 6422 |
| Mean. | 120 | 187 | 345 | 388 | 525 | 583 | 265 | 67.0 | 94.7 | 153 | 67.8 | 214 |
| Max. | 192 | 240 | 452 | 476 | 605 | 682 | 433 | 99 | 203 | 1060 | 72 | 511 |
| Min. | 106 | 169 | 254 | 224 | 452 | 391 | 102 | 47 | 58 | 75 | 66 | 62 |
| Acre-ft. | 7380 | 11140 | 21220 | 23880 | 30190 | 35850 | 15740 | 4120 | 5640 | 9400 | 4170 | 12740 |

Total run-off for water year 1939-40=181,470 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Sublette, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|-------|-------|-------|--------|-------|-------|-------|------|------|-------|
| 1.... | 377 | 88 | 80 | 814 | 306 | 441 | 1620 | 278 | 295 | 168 | 131 | 131 |
| 2.... | 389 | 87 | 82 | 814 | 282 | 486 | 1530 | 265 | 401 | 166 | 131 | 133 |
| 3.... | 401 | 184 | 93 | 835 | 262 | 541 | 1480 | 397 | 919 | 164 | 129 | 129 |
| 4.... | 366 | 237 | 90 | 863 | 237 | 616 | 1380 | 639 | 1110 | 151 | 128 | 124 |
| 5.... | 350 | 113 | 81 | 877 | 220 | 722 | 1140 | 645 | 1080 | 154 | 129 | 120 |
| 6.... | 320 | 164 | 339 | 891 | 208 | 788 | 1090 | 496 | 863 | 159 | 128 | 115 |
| 7.... | 302 | 174 | 450 | 877 | 197 | 722 | 1130 | 393 | 639 | 161 | 131 | 110 |
| 8.... | 331 | 142 | 471 | 877 | 306 | 698 | 1620 | 331 | 409 | 171 | 137 | 115 |
| 9.... | 417 | 133 | 466 | 926 | 299 | 1040 | 1910 | 331 | 324 | 161 | 139 | 129 |
| 10.... | 496 | 118 | 462 | 947 | 220 | 1820 | 1880 | 285 | 272 | 154 | 144 | 122 |
| 11.... | 604 | 101 | 566 | 926 | 309 | 2800 | 1700 | 189 | 259 | 147 | 154 | 116 |
| 12.... | 656 | 101 | 900 | 905 | 417 | 3200 | 1590 | 166 | 240 | 159 | 159 | 113 |
| 13.... | 674 | 100 | 1010 | 912 | 516 | 4000 | 1530 | 168 | 226 | 156 | 156 | 110 |
| 14.... | 674 | 95 | 1000 | 912 | 551 | 2850 | 1560 | 228 | 231 | 164 | 174 | 111 |
| 15.... | 610 | 91 | 960 | 926 | 572 | 2260 | 1630 | 324 | 231 | 164 | 176 | 133 |
| 16.... | 561 | 88 | 1040 | 954 | 536 | 2180 | 1820 | 316 | 220 | 154 | 178 | 144 |
| 17.... | 531 | 85 | 1100 | 1000 | 471 | 1940 | 2040 | 306 | 211 | 151 | 168 | 147 |
| 18.... | 342 | 85 | 1140 | 989 | 454 | 1750 | 2140 | 290 | 223 | 144 | 137 | 137 |
| 19.... | 313 | 85 | 1100 | 982 | 413 | 1620 | 2080 | 260 | 223 | 137 | 131 | 139 |
| 20.... | 316 | 82 | 1030 | 1020 | 409 | 1650 | 2040 | 228 | 220 | 137 | 129 | 138 |
| 21.... | 285 | 82 | 1050 | 1040 | 433 | 2140 | 2040 | 206 | 228 | 139 | 126 | 137 |
| 22.... | 285 | 81 | 1100 | 1050 | 425 | 2450 | 2040 | 186 | 234 | 139 | 122 | 136 |
| 23.... | 285 | 82 | 1100 | 1070 | 450 | 2650 | 1980 | 176 | 220 | 144 | 228 | 135 |
| 24.... | 265 | 76 | 1010 | 1070 | 437 | 2550 | 1850 | 161 | 192 | 144 | 231 | 137 |
| 25.... | 139 | 75 | 970 | 1040 | 421 | 2500 | 1840 | 151 | 192 | 144 | 142 | 137 |
| 26.... | 120 | 76 | 940 | 1040 | 389 | 2250 | 1730 | 161 | 186 | 144 | 128 | 144 |
| 27.... | 106 | 76 | 910 | 1070 | 377 | 1940 | 1160 | 168 | 164 | 144 | 129 | 137 |
| 28.... | 95 | 81 | 860 | 1090 | 446 | 1800 | 511 | 358 | 151 | 142 | 131 | 135 |
| 29.... | 93 | 85 | 810 | 1070 | .... | 1860 | 342 | 342 | 151 | 142 | 131 | 139 |
| 30.... | 91 | 83 | 830 | 1030 | .... | 1790 | 306 | 324 | 164 | 149 | 131 | 147 |
| 31.... | 88 | .... | 821 | 450 | .... | 1700 | .... | 313 | .... | 128 | 129 | .... |
| Total | 10882 | 3150 | 22861 | 29267 | 10563 | 55754 | 46709 | 9081 | 10478 | 4681 | 4517 | 3900 |
| Mean. | 351 | 105 | 737 | 944 | 377 | 1799 | 1557 | 293 | 349 | 151 | 146 | 130 |
| Max.. | 674 | 237 | 1140 | 1090 | 572 | 4000 | 2140 | 645 | 1110 | 171 | 231 | 147 |
| Min.. | 88 | 75 | 80 | 450 | 197 | 441 | 306 | 151 | 151 | 128 | 122 | 110 |
| Acre-ft. | 21580 | 6250 | 45340 | 58050 | 20950 | 110600 | 92650 | 18010 | 20780 | 9280 | 8960 | 7740 |

Total run-off for water year 1938-39=420,200 acre-feet.

Discharge of South Platte River at Sublette, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|------|------|------|------|-------|
| 1.... | 159 | 154 | 186 | 67 | 67 | 66 | 85 | 168 | 103 | 95 | 110 | 97 |
| 2.... | 164 | 171 | 142 | 71 | 66 | 74 | 122 | 144 | 100 | 100 | 106 | 94 |
| 3.... | 174 | 178 | 128 | 74 | 69 | 71 | 139 | 124 | 106 | 108 | 104 | 94 |
| 4.... | 176 | 178 | 116 | 70 | 68 | 68 | 135 | 124 | 142 | 131 | 103 | 100 |
| 5.... | 176 | 161 | 115 | 68 | 66 | 65 | 137 | 124 | 164 | 639 | 100 | 100 |
| 6.... | 166 | 164 | 103 | 70 | 66 | 79 | 156 | 126 | 178 | 417 | 98 | 103 |
| 7.... | 174 | 166 | 82 | 69 | 66 | 98 | 168 | 133 | 181 | 269 | 90 | 115 |
| 8.... | 176 | 161 | 139 | 67 | 61 | 108 | 161 | 147 | 144 | 194 | 91 | 118 |
| 9.... | 174 | 154 | 178 | 70 | 61 | 111 | 234 | 147 | 166 | 164 | 85 | 120 |
| 10.... | 159 | 164 | 86 | 75 | 65 | 113 | 269 | 151 | 174 | 135 | 90 | 174 |
| 11.... | 147 | 178 | 80 | 71 | 64 | 113 | 272 | 156 | 181 | 131 | 88 | 159 |
| 12.... | 137 | 174 | 77 | 71 | 63 | 120 | 275 | 144 | 189 | 120 | 90 | 256 |
| 13.... | 135 | 171 | 80 | 70 | 64 | 124 | 186 | 128 | 161 | 118 | 90 | 275 |
| 14.... | 135 | 174 | 76 | 67 | 65 | 118 | 176 | 118 | 142 | 115 | 90 | 240 |
| 15.... | 133 | 168 | 76 | 63 | 64 | 122 | 174 | 118 | 126 | 115 | 88 | 256 |
| 16.... | 128 | 159 | 76 | 67 | 64 | 124 | 176 | 110 | 115 | 108 | 90 | 259 |
| 17.... | 128 | 159 | 75 | 74 | 65 | 120 | 189 | 106 | 110 | 103 | 93 | 272 |
| 18.... | 130 | 161 | 74 | 93 | 64 | 115 | 184 | 103 | 108 | 100 | 91 | 269 |
| 19.... | 140 | 149 | 77 | 128 | 64 | 115 | 184 | 103 | 106 | 98 | 91 | 249 |
| 20.... | 150 | 147 | 81 | 126 | 66 | 103 | 186 | 103 | 103 | 108 | 93 | 228 |
| 21.... | 166 | 159 | 76 | 111 | 68 | 74 | 192 | 113 | 118 | 113 | 95 | 217 |
| 22.... | 168 | 161 | 74 | 147 | 63 | 72 | 226 | 120 | 137 | 113 | 95 | 220 |
| 23.... | 166 | 156 | 80 | 126 | 62 | 72 | 249 | 124 | 156 | 113 | 98 | 320 |
| 24.... | 171 | 144 | 80 | 113 | 63 | 70 | 249 | 139 | 144 | 113 | 100 | 433 |
| 25.... | 176 | 128 | 75 | 93 | 63 | 69 | 228 | 133 | 113 | 111 | 97 | 309 |
| 26.... | 166 | 129 | 74 | 88 | 61 | 70 | 211 | 122 | 101 | 108 | 94 | 226 |
| 27.... | 147 | 178 | 76 | 90 | 62 | 72 | 200 | 124 | 98 | 110 | 95 | 226 |
| 28.... | 142 | 186 | 83 | 87 | 62 | 72 | 206 | 122 | 97 | 110 | 95 | 217 |
| 29.... | 142 | 181 | 83 | 82 | 60 | 71 | 194 | 118 | 98 | 110 | 95 | 256 |
| 30.... | 135 | 217 | 68 | 85 | .... | 72 | 181 | 111 | 95 | 111 | 98 | 272 |
| 31.... | 137 | .... | 69 | 77 | .... | 71 | .... | 106 | .... | 110 | 100 | .... |
| Total | 4777 | 4930 | 2885 | 2630 | 1862 | 2812 | 5744 | 3909 | 3956 | 4590 | 2943 | 6274 |
| Mean. | 154 | 164 | 93.1 | 84.8 | 64.2 | 90.7 | 191 | 126 | 132 | 148 | 94.9 | 209 |
| Max.. | 176 | 217 | 186 | 147 | 69 | 124 | 275 | 168 | 189 | 639 | 110 | 433 |
| Min.. | 128 | 128 | 68 | 63 | 60 | 65 | 85 | 103 | 95 | 95 | 85 | 94 |
| Acre-ft. | 9480 | 9780 | 5720 | 5220 | 3690 | 5580 | 11390 | 7750 | 7850 | 9100 | 5840 | 12440 |

Total run-off for water year 1939-40=93,840 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Balzac, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|-------|-------|-------|--------|-------|------|-------|------|------|-------|
| 1. . . . | 100 | 19 | 20 | 685 | 769 | 480 | 1870 | 74 | 166 | 134 | 207 | 155 |
| 2. . . . | 93 | 19 | 19 | 620 | 700 | 394 | 1820 | 88 | 161 | 134 | 181 | 151 |
| 3. . . . | 122 | 20 | 19 | 527 | 627 | 324 | 1770 | 118 | 168 | 132 | 177 | 144 |
| 4. . . . | 157 | 22 | 19 | 462 | 578 | 376 | 1730 | 106 | 236 | 129 | 169 | 151 |
| 5. . . . | 93 | 24 | 18 | 444 | 536 | 417 | 1640 | 129 | 354 | 118 | 143 | 148 |
| 6. . . . | 53 | 22 | 18 | 447 | 504 | 490 | 1580 | 208 | 343 | 104 | 150 | 145 |
| 7. . . . | 33 | 20 | 20 | 415 | 445 | 621 | 1540 | 183 | 282 | 111 | 147 | 148 |
| 8. . . . | 31 | 21 | 22 | 359 | 419 | 751 | 1530 | 160 | 216 | 100 | 160 | 154 |
| 9. . . . | 25 | 21 | 23 | 472 | 392 | 993 | 1550 | 156 | 170 | 99 | 165 | 160 |
| 10. . . . | 25 | 20 | 24 | 636 | 387 | 3000 | 1580 | 147 | 164 | 99 | 159 | 162 |
| 11. . . . | 33 | 20 | 25 | 656 | 407 | 6880 | 1610 | 149 | 160 | 109 | 154 | 155 |
| 12. . . . | 23 | 20 | 70 | 692 | 574 | 7820 | 1580 | 139 | 180 | 131 | 149 | 145 |
| 13. . . . | 28 | 19 | 421 | 730 | 1190 | 4670 | 1550 | 134 | 181 | 133 | 149 | 151 |
| 14. . . . | 37 | 17 | 750 | 755 | 1270 | 4460 | 1530 | 133 | 165 | 131 | 147 | 132 |
| 15. . . . | 33 | 19 | 865 | 960 | 888 | 3180 | 1560 | 152 | 146 | 136 | 143 | 148 |
| 16. . . . | 32 | 21 | 1040 | 1200 | 676 | 2600 | 1540 | 208 | 143 | 144 | 136 | 157 |
| 17. . . . | 26 | 22 | 1080 | 1210 | 710 | 2490 | 1540 | 217 | 166 | 158 | 126 | 166 |
| 18. . . . | 23 | 23 | 1060 | 1220 | 704 | 2380 | 1570 | 188 | 165 | 149 | 128 | 166 |
| 19. . . . | 22 | 23 | 925 | 1160 | 609 | 2240 | 1580 | 159 | 189 | 152 | 128 | 162 |
| 20. . . . | 18 | 20 | 895 | 1100 | 539 | 2110 | 1570 | 135 | 205 | 140 | 138 | 172 |
| 21. . . . | 20 | 19 | 870 | 949 | 511 | 2080 | 1550 | 126 | 202 | 136 | 144 | 174 |
| 22. . . . | 20 | 19 | 850 | 1000 | 529 | 2100 | 1450 | 125 | 180 | 133 | 135 | 161 |
| 23. . . . | 18 | 19 | 833 | 1030 | 560 | 2120 | 1420 | 101 | 162 | 141 | 125 | 144 |
| 24. . . . | 19 | 19 | 802 | 975 | 594 | 2140 | 1450 | 79 | 172 | 151 | 134 | 151 |
| 25. . . . | 19 | 19 | 765 | 858 | 586 | 2120 | 1190 | 82 | 177 | 156 | 150 | 158 |
| 26. . . . | 21 | 22 | 739 | 848 | 455 | 2080 | 837 | 89 | 178 | 158 | 148 | 162 |
| 27. . . . | 20 | 21 | 711 | 857 | 405 | 2060 | 528 | 115 | 177 | 161 | 147 | 166 |
| 28. . . . | 20 | 19 | 671 | 858 | 506 | 2000 | 277 | 122 | 163 | 172 | 144 | 166 |
| 29. . . . | 20 | 19 | 667 | 825 | .... | 1980 | 84 | 140 | 143 | 195 | 146 | 168 |
| 30. . . . | 19 | 21 | 660 | 825 | .... | 1930 | 63 | 169 | 134 | 231 | 143 | 178 |
| 31. . . . | 19 | .... | 667 | 835 | .... | 1890 | .... | 159 | .... | 250 | 152 | .... |
| Total | 1222 | 609 | 15568 | 24610 | 17070 | 69176 | 41089 | 4290 | 5648 | 4427 | 4624 | 4700 |
| Mean. | 39.4 | 20.3 | 502 | 794 | 610 | 2231 | 1370 | 138 | 188 | 143 | 149 | 157 |
| Max. | 157 | 24 | 1080 | 1220 | 1270 | 7820 | 1870 | 217 | 354 | 250 | 207 | 178 |
| Min. | 18 | 17 | 18 | 359 | 387 | 324 | 63 | 74 | 134 | 99 | 125 | 132 |
| Acre-ft. | 2420 | 1210 | 30880 | 48810 | 33860 | 137200 | 81500 | 8510 | 11200 | 8780 | 9170 | 9320 |

Total run-off for water year 1938-39=382,900 acre-feet.

Discharge of South Platte River at Balzac, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1. . . . | 175 | 119 | 90 | 18 | 22 | 20 | 17 | 170 | 138 | 178 | 125 | 118 |
| 2. . . . | 155 | 124 | 130 | 18 | 21 | 24 | 17 | 151 | 126 | 198 | 122 | 130 |
| 3. . . . | 144 | 122 | 153 | 19 | 21 | 22 | 18 | 135 | 142 | 176 | 115 | 143 |
| 4. . . . | 163 | 127 | 224 | 16 | 18 | 20 | 17 | 134 | 140 | 140 | 113 | 155 |
| 5. . . . | 177 | 125 | 248 | 13 | 18 | 19 | 16 | 117 | 118 | 122 | 132 | 162 |
| 6. . . . | 183 | 123 | 189 | 14 | 17 | 19 | 18 | 108 | 148 | 124 | 149 | 169 |
| 7. . . . | 182 | 119 | 124 | 14 | 17 | 19 | 19 | 97 | 373 | 199 | 147 | 166 |
| 8. . . . | 182 | 111 | 115 | 16 | 16 | 17 | 16 | 93 | 72 | 183 | 148 | 170 |
| 9. . . . | 200 | 103 | 101 | 14 | 14 | 18 | 27 | 88 | 51 | 142 | 142 | 173 |
| 10. . . . | 194 | 100 | 97 | 16 | 15 | 18 | 68 | 91 | 92 | 107 | 149 | 198 |
| 11. . . . | 175 | 100 | 94 | 16 | 14 | 16 | 42 | 92 | 116 | 102 | 132 | 444 |
| 12. . . . | 150 | 99 | 100 | 16 | 13 | 17 | 28 | 92 | 119 | 104 | 120 | 277 |
| 13. . . . | 134 | 100 | 93 | 17 | 12 | 19 | 26 | 107 | 115 | 107 | 121 | 236 |
| 14. . . . | 134 | 102 | 82 | 16 | 12 | 17 | 26 | 110 | 112 | 113 | 164 | 170 |
| 15. . . . | 135 | 104 | 84 | 14 | 12 | 16 | 22 | 104 | 130 | 110 | 163 | 147 |
| 16. . . . | 128 | 102 | 83 | 15 | 13 | 16 | 34 | 99 | 127 | 118 | 144 | 151 |
| 17. . . . | 124 | 100 | 66 | 17 | 13 | 17 | 39 | 108 | 121 | 116 | 144 | 222 |
| 18. . . . | 115 | 96 | 52 | 16 | 14 | 16 | 34 | 125 | 112 | 108 | 159 | 254 |
| 19. . . . | 101 | 87 | 51 | 14 | 15 | 14 | 43 | 119 | 100 | 104 | 165 | 258 |
| 20. . . . | 90 | 85 | 48 | 15 | 15 | 14 | 62 | 109 | 97 | 112 | 167 | 245 |
| 21. . . . | 87 | 82 | 44 | 16 | 16 | 13 | 62 | 116 | 90 | 115 | 175 | 219 |
| 22. . . . | 89 | 82 | 29 | 17 | 16 | 13 | 76 | 135 | 102 | 120 | 172 | 201 |
| 23. . . . | 88 | 77 | 26 | 18 | 16 | 21 | 79 | 136 | 109 | 113 | 175 | 215 |
| 24. . . . | 101 | 78 | 25 | 20 | 17 | 21 | 90 | 120 | 118 | 115 | 175 | 263 |
| 25. . . . | 124 | 79 | 28 | 20 | 17 | 19 | 95 | 120 | 113 | 117 | 177 | 407 |
| 26. . . . | 131 | 75 | 25 | 20 | 14 | 18 | 88 | 118 | 114 | 138 | 203 | 386 |
| 27. . . . | 145 | 76 | 27 | 21 | 16 | 18 | 95 | 128 | 126 | 170 | 164 | 262 |
| 28. . . . | 155 | 84 | 25 | 20 | 18 | 22 | 95 | 119 | 125 | 169 | 131 | 137 |
| 29. . . . | 156 | 89 | 30 | 20 | 18 | 16 | 156 | 145 | 143 | 174 | 126 | 119 |
| 30. . . . | 138 | 86 | 28 | 21 | .... | 16 | 175 | 265 | 151 | 191 | 125 | 118 |
| 31. . . . | 123 | .... | 23 | 22 | .... | 18 | .... | 145 | .... | 126 | 118 | .... |
| Total | 4378 | 2956 | 2534 | 529 | 460 | 553 | 1600 | 3796 | 3740 | 4221 | 4562 | 6321 |
| Mean. | 141 | 98.5 | 81.7 | 17.1 | 15.9 | 17.8 | 53.3 | 122 | 125 | 136 | 147 | 211 |
| Max. | 200 | 127 | 248 | 22 | 22 | 24 | 175 | 265 | 373 | 199 | 203 | 444 |
| Min. | 87 | 75 | 23 | 13 | 12 | 13 | 16 | 88 | 51 | 102 | 113 | 118 |
| Acre-ft. | 8680 | 5860 | 5030 | 1050 | 912 | 1100 | 3170 | 7530 | 7420 | 8370 | 9050 | 12540 |

Total run-off for water year 1939-40=70,710 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Julesburg, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|--------|-------|------|------|------|------|-------|
| 1.... | 202 | 255 | 362 | 1000 | 942 | 873 | 1950 | 681 | 147 | 41 | 38 | 27 |
| 2.... | 223 | 248 | 360 | 1150 | 811 | 910 | 1850 | 546 | 175 | 40 | 35 | 27 |
| 3.... | 207 | 240 | 354 | 1170 | 800 | 931 | 1760 | 407 | 134 | 39 | 33 | 26 |
| 4.... | 193 | 285 | 352 | 1280 | 872 | 889 | 1720 | 297 | 111 | 36 | 31 | 26 |
| 5.... | 206 | 286 | 351 | 1180 | 928 | 807 | 1660 | 236 | 93 | 35 | 30 | 27 |
| 6.... | 219 | 284 | 350 | 1140 | 940 | 780 | 1650 | 204 | 82 | 33 | 29 | 31 |
| 7.... | 230 | 279 | 354 | 1040 | 891 | 767 | 1600 | 171 | 80 | 33 | 33 | 28 |
| 8.... | 248 | 281 | 352 | 1020 | 745 | 804 | 1560 | 145 | 79 | 34 | 30 | 29 |
| 9.... | 271 | 329 | 360 | 1090 | 606 | 921 | 1520 | 124 | 71 | 36 | 28 | 29 |
| 10.... | 276 | 328 | 358 | 1070 | 431 | 1060 | 1530 | 104 | 70 | 35 | 27 | 32 |
| 11.... | 291 | 326 | 362 | 1020 | 460 | 1230 | 1600 | 99 | 70 | 33 | 27 | 32 |
| 12.... | 312 | 329 | 377 | 1070 | 494 | 2070 | 1690 | 94 | 69 | 31 | 26 | 26 |
| 13.... | 320 | 316 | 409 | 1060 | 549 | 4580 | 1750 | 91 | 67 | 30 | 27 | 26 |
| 14.... | 327 | 319 | 427 | 1010 | 641 | 8520 | 1730 | 96 | 63 | 29 | 27 | 25 |
| 15.... | 342 | 312 | 381 | 1000 | 761 | 5830 | 1690 | 96 | 61 | 29 | 27 | 26 |
| 16.... | 357 | 312 | 384 | 1000 | 977 | 4540 | 1660 | 91 | 59 | 29 | 27 | 27 |
| 17.... | 361 | 310 | 474 | 1060 | 1170 | 3760 | 1640 | 81 | 58 | 36 | 26 | 27 |
| 18.... | 396 | 310 | 482 | 1180 | 1160 | 2910 | 1630 | 82 | 59 | 34 | 26 | 29 |
| 19.... | 382 | 305 | 600 | 1250 | 1050 | 2450 | 1660 | 78 | 54 | 33 | 28 | 26 |
| 20.... | 376 | 314 | 699 | 1280 | 1190 | 2120 | 1710 | 66 | 58 | 32 | 28 | 28 |
| 21.... | 376 | 316 | 856 | 1250 | 1210 | 1890 | 1720 | 65 | 49 | 32 | 27 | 28 |
| 22.... | 355 | 326 | 968 | 1250 | 1130 | 1740 | 1710 | 62 | 48 | 37 | 26 | 28 |
| 23.... | 349 | 352 | 1050 | 1240 | 983 | 1740 | 1660 | 58 | 44 | 41 | 26 | 34 |
| 24.... | 349 | 409 | 1040 | 1120 | 926 | 1880 | 1610 | 50 | 42 | 48 | 26 | 34 |
| 25.... | 347 | 388 | 1020 | 1120 | 891 | 1970 | 1540 | 50 | 45 | 45 | 26 | 34 |
| 26.... | 351 | 400 | 1020 | 1120 | 901 | 1990 | 1450 | 62 | 87 | 39 | 27 | 29 |
| 27.... | 328 | 370 | 834 | 1070 | 927 | 2070 | 1380 | 66 | 64 | 36 | 27 | 28 |
| 28.... | 305 | 367 | 790 | 1060 | 899 | 2050 | 1210 | 63 | 53 | 35 | 29 | 29 |
| 29.... | 262 | 368 | 694 | 1030 | .... | 2080 | 970 | 60 | 43 | 33 | 27 | 30 |
| 30.... | 261 | 364 | 798 | 1030 | .... | 2050 | 812 | 60 | 40 | 36 | 27 | 29 |
| 31.... | 261 | .... | 863 | 1040 | .... | 2030 | .... | 73 | .... | 43 | 27 | .... |
| Total | 9283 | 9619 | 17941 | 34400 | 24285 | 68902 | 47622 | 4458 | 2174 | 1105 | 878 | 857 |
| Mean... | 299 | 321 | 579 | 1110 | 867 | 2200 | 1587 | 144 | 72.5 | 35.6 | 28.3 | 28.6 |
| Max.... | 396 | 400 | 1050 | 1980 | 1210 | 8590 | 1950 | 681 | 175 | 48 | 38 | 34 |
| Min.... | 193 | 240 | 250 | 1000 | 431 | 767 | 812 | 50 | 40 | 29 | 26 | 25 |
| Acre-ft. | 18410 | 19080 | 35590 | 68230 | 48170 | 135300 | 94460 | 8840 | 4310 | 2190 | 1740 | 1700 |

Total run-off for water year 1938-39=438,020 acre-feet.

Discharge of South Platte River at Julesburg, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|-------|-------|------|------|------|------|------|-------|
| 1.... | 30 | 58 | 61 | 97 | 150 | 267 | 130 | 53 | 41 | 24 | 20 | 15 |
| 2.... | 30 | 55 | 80 | 106 | 139 | 302 | 111 | 52 | 39 | 26 | 19 | 15 |
| 3.... | 35 | 52 | 92 | 110 | 192 | 302 | 105 | 48 | 40 | 24 | 18 | 15 |
| 4.... | 36 | 55 | 94 | 68 | 188 | 286 | 89 | 46 | 41 | 23 | 19 | 18 |
| 5.... | 34 | 55 | 96 | 30 | 193 | 253 | 87 | 43 | 40 | 23 | 18 | 19 |
| 6.... | 36 | 53 | 81 | 60 | 227 | 238 | 68 | 42 | 46 | 23 | 18 | 19 |
| 7.... | 34 | 57 | 61 | 122 | 276 | 250 | 72 | 39 | 140 | 22 | 15 | 19 |
| 8.... | 37 | 56 | 58 | 131 | 289 | 256 | 71 | 38 | 99 | 22 | 18 | 19 |
| 9.... | 46 | 54 | 58 | 136 | 284 | 294 | 65 | 38 | 84 | 22 | 18 | 18 |
| 10.... | 43 | 52 | 55 | 155 | 299 | 301 | 61 | 33 | 78 | 22 | 17 | 19 |
| 11.... | 48 | 55 | 54 | 144 | 305 | 296 | 61 | 30 | 60 | 24 | 17 | 20 |
| 12.... | 51 | 52 | 53 | 117 | 311 | 294 | 69 | 36 | 55 | 27 | 18 | 20 |
| 13.... | 49 | 51 | 52 | 112 | 312 | 306 | 66 | 38 | 55 | 23 | 18 | 19 |
| 14.... | 50 | 50 | 55 | 86 | 303 | 325 | 64 | 40 | 52 | 21 | 18 | 18 |
| 15.... | 51 | 49 | 56 | 81 | 282 | 334 | 61 | 35 | 44 | 22 | 19 | 18 |
| 16.... | 52 | 49 | 58 | 102 | 270 | 343 | 56 | 38 | 37 | 21 | 22 | 17 |
| 17.... | 55 | 53 | 56 | 110 | 286 | 336 | 62 | 42 | 35 | 22 | 23 | 18 |
| 18.... | 54 | 53 | 54 | 93 | 310 | 318 | 59 | 41 | 31 | 21 | 24 | 18 |
| 19.... | 55 | 51 | 53 | 96 | 334 | 277 | 58 | 44 | 30 | 21 | 21 | 19 |
| 20.... | 55 | 53 | 52 | 97 | 311 | 264 | 57 | 44 | 32 | 21 | 20 | 18 |
| 21.... | 56 | 53 | 48 | 117 | 299 | 269 | 53 | 45 | 30 | 22 | 19 | 18 |
| 22.... | 57 | 52 | 46 | 117 | 296 | 266 | 52 | 41 | 30 | 21 | 18 | 18 |
| 23.... | 59 | 52 | 55 | 112 | 294 | 260 | 52 | 40 | 29 | 21 | 17 | 20 |
| 24.... | 61 | 52 | 77 | 98 | 278 | 263 | 53 | 39 | 28 | 20 | 17 | 21 |
| 25.... | 60 | 51 | 79 | 101 | 288 | 255 | 51 | 39 | 27 | 20 | 19 | 21 |
| 26.... | 57 | 51 | 71 | 95 | 286 | 231 | 50 | 44 | 27 | 20 | 18 | 22 |
| 27.... | 57 | 53 | 71 | 100 | 278 | 213 | 49 | 44 | 27 | 22 | 17 | 23 |
| 28.... | 57 | 55 | 72 | 118 | 266 | 208 | 48 | 47 | 27 | 22 | 17 | 22 |
| 29.... | 57 | 54 | 77 | 161 | 254 | 187 | 51 | 43 | 27 | 22 | 16 | 23 |
| 30.... | 57 | 55 | 85 | 176 | .... | 163 | 50 | 42 | 23 | 22 | 15 | 23 |
| 31.... | 59 | .... | 94 | 196 | .... | 141 | .... | 41 | .... | 22 | 15 | .... |
| Total | 1518 | 1591 | 2054 | 3444 | 7800 | 8298 | 1981 | 1285 | 1354 | 688 | 568 | 572 |
| Mean... | 49.0 | 53.0 | 66.3 | 111 | 269 | 268 | 66.0 | 41.5 | 45.1 | 22.2 | 18.3 | 19.1 |
| Max.... | 61 | 58 | 96 | 196 | 334 | 343 | 130 | 53 | 140 | 27 | 24 | 23 |
| Min.... | 30 | 49 | 46 | 30 | 139 | 141 | 48 | 30 | 23 | 20 | 15 | 15 |
| Acre-ft. | 3010 | 3160 | 4070 | 6830 | 15470 | 16460 | 3930 | 2550 | 2690 | 1360 | 1130 | 1130 |

Total run-off for water year 1939-40=61,790 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Tarryall Creek Near Lake George, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|----------------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| 1.... | 58 | 43 | ..... | ..... | ..... | ..... | 84 | 40 | 300 | 49 | 60 | 21 |
| 2.... | 53 | 45 | ..... | ..... | ..... | ..... | 93 | 45 | 190 | 72 | 33 | 20 |
| 3.... | 53 | 44 | ..... | ..... | ..... | ..... | 136 | 50 | 171 | 47 | 34 | 14 |
| 4.... | 55 | 26 | ..... | ..... | ..... | ..... | 113 | 52 | 109 | 33 | 36 | 12 |
| 5.... | 59 | 32 | ..... | ..... | ..... | ..... | 100 | 48 | 96 | 24 | 35 | 8.1 |
| 6.... | 62 | ..... | ..... | ..... | ..... | ..... | 90 | 48 | 98 | 20 | 26 | 5.0 |
| 7.... | 96 | ..... | ..... | ..... | ..... | ..... | 81 | 52 | 111 | 20 | 26 | 4.2 |
| 8.... | 235 | ..... | ..... | ..... | ..... | ..... | 54 | 48 | 104 | 32 | 31 | 3.2 |
| 9.... | 148 | ..... | ..... | ..... | ..... | ..... | 60 | 42 | 85 | 47 | 28 | 4.4 |
| 10.... | 164 | ..... | ..... | ..... | ..... | ..... | 62 | 41 | 75 | 37 | 22 | 5.0 |
| 11.... | 96 | ..... | ..... | ..... | ..... | ..... | 65 | 44 | 131 | 31 | 15 | 5.6 |
| 12.... | 54 | ..... | ..... | ..... | ..... | ..... | 54 | 46 | 222 | 31 | 10 | 5.6 |
| 13.... | 43 | ..... | ..... | ..... | ..... | ..... | 50 | 76 | 213 | 23 | 9.4 | 9.8 |
| 14.... | 46 | ..... | ..... | ..... | ..... | ..... | 62 | 180 | 137 | 18 | 9.0 | 11 |
| 15.... | 56 | ..... | ..... | ..... | ..... | ..... | 74 | 137 | 86 | 17 | 13 | 12 |
| 16.... | 60 | ..... | ..... | ..... | ..... | ..... | 71 | 95 | 71 | 16 | 17 | 9.8 |
| 17.... | 70 | ..... | ..... | ..... | ..... | ..... | 58 | 100 | 62 | 17 | 16 | 9.4 |
| 18.... | 56 | ..... | ..... | ..... | ..... | ..... | 52 | 104 | 60 | 32 | 13 | 8.1 |
| 19.... | 55 | ..... | ..... | ..... | ..... | ..... | 48 | 148 | 53 | 29 | 9.4 | 6.6 |
| 20.... | 51 | ..... | ..... | ..... | ..... | ..... | 57 | 118 | 46 | 22 | 9.0 | 5.4 |
| 21.... | 44 | ..... | ..... | ..... | ..... | ..... | 56 | 137 | 44 | 18 | 8.1 | 5.8 |
| 22.... | 47 | ..... | ..... | ..... | ..... | ..... | 75 | 177 | 48 | 13 | 6.0 | 4.8 |
| 23.... | 45 | ..... | ..... | ..... | ..... | ..... | 70 | 115 | 62 | 8.7 | 5.8 | 4.4 |
| 24.... | 50 | ..... | ..... | ..... | ..... | ..... | 50 | 130 | 80 | 7.8 | 6.0 | 3.4 |
| 25.... | 51 | ..... | ..... | ..... | ..... | ..... | 40 | 157 | 49 | 6.6 | 6.6 | 3.6 |
| 26.... | 40 | ..... | ..... | ..... | ..... | ..... | 36 | 188 | 50 | 6.6 | 5.6 | 3.2 |
| 27.... | 42 | ..... | ..... | ..... | ..... | ..... | 32 | 201 | 58 | 7.5 | 5.4 | 3.2 |
| 28.... | 41 | ..... | ..... | ..... | ..... | ..... | 33 | 104 | 50 | 46 | 9.8 | 2.8 |
| 29.... | 45 | ..... | ..... | ..... | ..... | ..... | 34 | 102 | 37 | 51 | 12 | 3.6 |
| 30.... | 44 | ..... | ..... | ..... | ..... | ..... | 34 | 143 | 25 | 31 | 10 | 2.6 |
| 31.... | 43 | Nov. 1 to 5 | ..... | ..... | ..... | 81 | ..... | 170 | ..... | 44 | 16 | ..... |
| Total | 2062 | 190 | ..... | ..... | ..... | ..... | 1924 | 3138 | 2923 | 857.2 | 543.1 | 217.6 |
| Mean. | 66.5 | 38.0 | ..... | ..... | ..... | ..... | 64.1 | 101 | 97.4 | 27.7 | 17.5 | 7.25 |
| Max.. | 235 | 45 | ..... | ..... | ..... | ..... | 136 | 201 | 300 | 72 | 60 | 21 |
| Min.. | 40 | 26 | ..... | ..... | ..... | ..... | 32 | 40 | 25 | 6.6 | 5.4 | 2.6 |
| Acre-ft. | 4090 | 377 | ..... | ..... | ..... | ..... | 3820 | 6220 | 5800 | 1700 | 1080 | 432 |

Total run-off for period=23,519 acre-feet.

Discharge of Tarryall Creek Near Lake George, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
| 1.... | 2.6 | 10 | ..... | ..... | ..... | ..... | 20 | 4.0 | 6.0 | 8.4 | 8.1 | 5.4 |
| 2.... | 3.0 | 15 | ..... | ..... | ..... | ..... | 19 | 3.0 | 6.9 | 8.4 | 7.2 | 5.8 |
| 3.... | 3.2 | 17 | ..... | ..... | ..... | ..... | 17 | 2.4 | 11 | 23 | 13 | 5.4 |
| 4.... | 4.2 | 17 | ..... | ..... | ..... | ..... | 15 | 1.8 | 23 | 14 | 14 | 5.2 |
| 5.... | 5.2 | 16 | ..... | ..... | ..... | ..... | 17 | 1.4 | 36 | 14 | 11 | 5.0 |
| 6.... | 5.2 | 10 | ..... | ..... | ..... | ..... | 18 | 1.2 | 74 | 13 | 13 | 4.8 |
| 7.... | 3.8 | 7.2 | ..... | ..... | ..... | ..... | 19 | 1.2 | 109 | 9.8 | 13 | 5.2 |
| 8.... | 2.0 | ..... | ..... | ..... | ..... | ..... | 17 | 1.4 | 67 | 5.6 | 12 | 6.0 |
| 9.... | 2.2 | ..... | ..... | ..... | ..... | ..... | 17 | 3.0 | 29 | 3.2 | 13 | 2.0 |
| 10.... | 2.0 | ..... | ..... | ..... | ..... | ..... | 16 | ..... | 22 | 3.2 | 13 | 5.8 |
| 11.... | 3.8 | ..... | ..... | ..... | ..... | ..... | 13 | 1.8 | 26 | 1.5 | 14 | 2.6 |
| 12.... | ..... | ..... | ..... | ..... | ..... | ..... | 8.4 | 24 | 48 | 0.8 | 11 | 2.5 |
| 13.... | 4.2 | ..... | ..... | ..... | ..... | ..... | 9.8 | 31 | 46 | 1.1 | 13 | 1.8 |
| 14.... | 5.4 | ..... | ..... | ..... | ..... | ..... | 7.5 | 38 | 44 | 3.0 | 13 | 1.5 |
| 15.... | 9.0 | ..... | ..... | ..... | ..... | ..... | 8.1 | 42 | 42 | 1.7 | 14 | 1.5 |
| 16.... | 6.0 | ..... | ..... | ..... | ..... | ..... | 9.0 | 20 | 44 | 1.6 | 10 | 1.5 |
| 17.... | 4.2 | ..... | ..... | ..... | ..... | ..... | 12 | 26 | 46 | 1.5 | 6.6 | 1.5 |
| 18.... | 13 | ..... | ..... | ..... | ..... | ..... | 13 | 71 | 42 | 1.4 | 4.6 | 1.5 |
| 19.... | 6.6 | ..... | ..... | ..... | ..... | ..... | 11 | 59 | 41 | 1.6 | 4.2 | 1.5 |
| 20.... | 6.9 | ..... | ..... | ..... | ..... | ..... | 10 | 29 | 33 | 3.8 | 7.5 | 4.8 |
| 21.... | 5.4 | ..... | ..... | ..... | ..... | ..... | 9.0 | 32 | 35 | 8.1 | 13 | 7.8 |
| 22.... | 5.6 | ..... | ..... | ..... | ..... | ..... | 8.7 | 69 | 34 | 7.5 | 15 | 14 |
| 23.... | 8.7 | ..... | ..... | ..... | ..... | ..... | 7.8 | 63 | 34 | 7.8 | 25 | 20 |
| 24.... | 12 | ..... | ..... | ..... | ..... | ..... | 6.3 | 22 | 33 | 4.6 | 13 | 24 |
| 25.... | 5.4 | ..... | ..... | ..... | ..... | ..... | 5.8 | 17 | 32 | 5.0 | 22 | 24 |
| 26.... | 5.8 | ..... | ..... | ..... | ..... | ..... | 9.4 | 13 | 26 | 5.6 | 22 | 24 |
| 27.... | 5.2 | ..... | ..... | ..... | ..... | ..... | 10 | 11 | 15 | 6.6 | 9.4 | 24 |
| 28.... | 2.6 | ..... | ..... | ..... | ..... | ..... | 10 | 8.7 | 12 | 5.8 | 5.8 | 2.2 |
| 29.... | 5.4 | ..... | ..... | ..... | ..... | ..... | 12 | 8.7 | 11 | 6.0 | 4.0 | 1.5 |
| 30.... | 6.3 | ..... | ..... | ..... | ..... | ..... | 7.8 | 7.5 | 9 | 7.8 | 1.8 | 1.5 |
| 31.... | 3.6 | ..... | ..... | ..... | ..... | ..... | ..... | 5.8 | ..... | 9.8 | 5.4 | ..... |
| Total | 163.3 | ..... | ..... | ..... | ..... | ..... | 363.6 | 648.1 | 1046.9 | 195.2 | 351.6 | 474.4 |
| Mean. | 5.27 | ..... | ..... | ..... | ..... | ..... | 12.1 | 20.9 | 34.9 | 6.30 | 11.3 | 15.8 |
| Max.. | 13 | ..... | ..... | ..... | ..... | ..... | 20 | 71 | 109 | 23 | 25 | 5.8 |
| Min.. | 2.0 | ..... | ..... | ..... | ..... | ..... | 5.8 | 1.2 | 6 | 0.8 | 1.8 | 4.8 |
| Acre-ft. | 324 | ..... | ..... | ..... | ..... | ..... | 721 | 1290 | 2080 | 387 | 697 | 941 |

Total run-off for period=6,440 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Goose Creek Above Lake Cheesman, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|----------------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|
| 1.... | 45 | 32 | ..... | ..... | ..... | ..... | 33 | 97 | 106 | 31 | 22 | 11 |
| 2.... | 52 | 34 | ..... | ..... | ..... | ..... | 34 | 101 | 70 | 32 | 16 | 9.2 |
| 3.... | 53 | 33 | ..... | ..... | ..... | ..... | 35 | 103 | 56 | 28 | 15 | 7.7 |
| 4.... | 50 | 35 | ..... | ..... | ..... | ..... | 36 | 105 | 50 | 25 | 14 | 7.1 |
| 5.... | 56 | ..... | ..... | ..... | ..... | ..... | 36 | 98 | 48 | 26 | 13 | 6.8 |
| 6.... | 56 | ..... | ..... | ..... | ..... | ..... | 38 | 90 | 50 | 24 | 13 | 6.8 |
| 7.... | 81 | ..... | ..... | ..... | ..... | ..... | 38 | 86 | 40 | 23 | 15 | 6.8 |
| 8.... | 105 | ..... | ..... | ..... | ..... | ..... | 34 | 91 | 36 | 22 | 15 | 8.6 |
| 9.... | 84 | ..... | ..... | ..... | ..... | ..... | 36 | 88 | 38 | 19 | 13 | 11 |
| 10.... | 72 | ..... | ..... | ..... | ..... | ..... | 36 | 89 | 40 | 17 | 11 | 8.3 |
| 11.... | 67 | ..... | ..... | ..... | ..... | ..... | 31 | 85 | 40 | 15 | 11 | 8.3 |
| 12.... | 61 | ..... | ..... | ..... | ..... | ..... | 32 | 85 | 42 | 14 | 13 | 8.9 |
| 13.... | 57 | ..... | ..... | ..... | ..... | ..... | 40 | 85 | 38 | 14 | 14 | 8.0 |
| 14.... | 54 | ..... | ..... | ..... | ..... | ..... | 48 | 97 | 38 | 15 | 12 | 7.0 |
| 15.... | 51 | ..... | ..... | ..... | ..... | ..... | 46 | 80 | 36 | 17 | 11 | 6.2 |
| 16.... | 49 | ..... | ..... | ..... | ..... | ..... | 42 | 80 | 32 | 15 | 12 | 6.2 |
| 17.... | 46 | ..... | ..... | ..... | ..... | ..... | 38 | 85 | 31 | 15 | 13 | 5.9 |
| 18.... | 42 | ..... | ..... | ..... | ..... | ..... | 35 | 80 | 30 | 13 | 8.0 | 5.3 |
| 19.... | 44 | ..... | ..... | ..... | ..... | ..... | 40 | 77 | 30 | 11 | 7.1 | 5.0 |
| 20.... | 38 | ..... | ..... | ..... | ..... | ..... | 46 | 70 | 32 | 11 | 6.8 | 5.0 |
| 21.... | 38 | ..... | ..... | ..... | ..... | ..... | 56 | 70 | 32 | 11 | 7.1 | 5.0 |
| 22.... | 39 | ..... | ..... | ..... | ..... | ..... | 85 | 68 | 32 | 11 | 7.1 | 5.0 |
| 23.... | 36 | ..... | ..... | ..... | ..... | ..... | 106 | 65 | 30 | 11 | 6.8 | 5.6 |
| 24.... | 37 | ..... | ..... | ..... | ..... | ..... | 83 | 63 | 27 | 11 | 6.2 | 7.1 |
| 25.... | 37 | ..... | ..... | ..... | ..... | ..... | 82 | 65 | 28 | 10 | 6.2 | 7.7 |
| 26.... | 36 | ..... | ..... | ..... | ..... | ..... | 81 | 77 | 31 | 14 | 7.1 | 6.5 |
| 27.... | 36 | ..... | ..... | ..... | ..... | ..... | 82 | 70 | 30 | 20 | 6.8 | 6.5 |
| 28.... | 36 | ..... | ..... | ..... | ..... | ..... | 103 | 62 | 28 | 19 | 6.2 | 6.5 |
| 29.... | 32 | ..... | ..... | ..... | ..... | ..... | 115 | 59 | 29 | 18 | 7.8 | 6.5 |
| 30.... | 34 | ..... | ..... | ..... | ..... | ..... | 114 | 58 | 30 | 17 | 7.4 | 6.5 |
| 31.... | 34 | Nov. 1 to 4 | ..... | ..... | ..... | ..... | ..... | 58 | ..... | 18 | 10 | ..... |
| Total | 1558 | 134 | ..... | ..... | ..... | ..... | 1661 | 2487 | 1180 | 547 | 333.6 | 212.0 |
| Mean... | 50.3 | 33.5 | ..... | ..... | ..... | ..... | 55.4 | 80.2 | 39.3 | 17.6 | 10.8 | 7.07 |
| Max.... | 105 | 35 | ..... | ..... | ..... | ..... | 115 | 105 | 106 | 32 | 22 | 11 |
| Min.... | 32 | 32 | ..... | ..... | ..... | ..... | 31 | 58 | 27 | 10 | 6.2 | 5.0 |
| Acre-ft. | 3090 | 266 | ..... | ..... | ..... | ..... | 3290 | 4930 | 2340 | 1080 | 662 | 420 |

Total run-off for period=15,878 acre-feet.

Discharge of Goose Creek Above Lake Cheesman, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|
| 1.... | 6.5 | 8.0 | ..... | ..... | ..... | 4.0 | 16 | 19 | 33 | 16 | 12 | 6.8 |
| 2.... | 6.2 | 8.0 | ..... | ..... | ..... | 3.0 | 16 | 23 | 31 | 19 | 9.5 | 7.4 |
| 3.... | 5.9 | 8.3 | ..... | ..... | ..... | 2.0 | 15 | 23 | 29 | 17 | 9.8 | 7.1 |
| 4.... | 5.9 | 8.0 | ..... | ..... | ..... | 3.0 | 15 | 23 | 28 | 42 | 11 | 8.3 |
| 5.... | 5.3 | 7.7 | ..... | ..... | ..... | 3.0 | 15 | 19 | 27 | 30 | 9.2 | 10 |
| 6.... | 4.6 | 7.7 | ..... | ..... | ..... | 3.0 | 15 | 19 | 26 | 23 | 8.9 | 8.3 |
| 7.... | 5.0 | 7.4 | ..... | ..... | ..... | 3.0 | 16 | 22 | 26 | 19 | 9.8 | 7.4 |
| 8.... | 5.6 | 7.4 | ..... | ..... | ..... | 3.0 | 15 | 19 | 24 | 15 | 10 | 14 |
| 9.... | 6.8 | 7.1 | ..... | ..... | ..... | 3.0 | 15 | 18 | 23 | 14 | 9.2 | 25 |
| 10.... | 7.4 | 8.0 | ..... | ..... | ..... | 5.0 | 15 | 17 | 28 | 13 | 8.3 | 6.5 |
| 11.... | 6.5 | 8.6 | ..... | ..... | ..... | 5.0 | 13 | 11 | 30 | 13 | 7.7 | 36 |
| 12.... | 6.2 | 8.8 | ..... | ..... | ..... | 6.5 | 12 | 11 | 24 | 13 | 8.0 | 25 |
| 13.... | 6.5 | 9.0 | ..... | ..... | ..... | 4.0 | 12 | 12 | 22 | 20 | 8.3 | 25 |
| 14.... | 7.1 | 8.4 | ..... | ..... | ..... | 3.0 | 11 | 15 | 20 | 23 | 6.8 | 30 |
| 15.... | 7.4 | 7.7 | ..... | ..... | ..... | 3.0 | 11 | 14 | 19 | 17 | 6.2 | 24 |
| 16.... | 7.4 | 6.2 | ..... | ..... | ..... | 4.0 | 27 | 17 | 20 | 20 | 7.1 | 21 |
| 17.... | 7.4 | 5.3 | ..... | ..... | ..... | 6.5 | 33 | 14 | 20 | 17 | 7.4 | 20 |
| 18.... | 7.4 | 4.4 | ..... | ..... | ..... | 8.6 | 37 | 26 | 17 | 13 | 7.1 | 19 |
| 19.... | 7.1 | 4.0 | ..... | ..... | ..... | 9.5 | 34 | 32 | 15 | 16 | 10 | 18 |
| 20.... | 7.1 | 3.5 | ..... | ..... | ..... | 11 | 42 | 23 | 14 | 17 | 9.5 | 19 |
| 21.... | 5.6 | 3.2 | ..... | ..... | ..... | 13 | 66 | 110 | 13 | 13 | 8.3 | 19 |
| 22.... | 4.8 | 2.6 | ..... | ..... | ..... | 13 | 67 | 70 | 13 | 15 | 7.4 | 23 |
| 23.... | 5.0 | 2.6 | ..... | ..... | ..... | 16 | 52 | 38 | 14 | 13 | 8.3 | 28 |
| 24.... | 5.3 | 2.6 | ..... | ..... | ..... | 13 | 52 | 62 | 14 | 12 | 16 | 33 |
| 25.... | 5.3 | 2.6 | ..... | ..... | ..... | 15 | 53 | 50 | 11 | 11 | 20 | 34 |
| 26.... | 5.3 | 2.6 | ..... | ..... | ..... | 15 | 53 | 43 | 10 | 10 | 13 | 32 |
| 27.... | 5.3 | 2.6 | ..... | ..... | ..... | 16 | 52 | 41 | 11 | 11 | 9.8 | 28 |
| 28.... | 6.5 | 2.6 | ..... | ..... | ..... | 16 | 74 | 43 | 11 | 10 | 8.6 | 25 |
| 29.... | 6.5 | 2.6 | ..... | ..... | ..... | 16 | 38 | 42 | 11 | 11 | 7.4 | 24 |
| 30.... | 5.9 | 2.6 | ..... | ..... | ..... | 15 | 32 | 38 | 11 | 11 | 7.1 | 25 |
| 31.... | 8.0 | ..... | ..... | ..... | ..... | 15 | ..... | 36 | ..... | 13 | 6.8 | ..... |
| Total | 192.8 | 170.1 | 68.2 | 83.7 | 121.8 | 256.1 | 924 | 950 | 595 | 511 | 288.5 | 666.3 |
| Mean... | 6.22 | 5.67 | 2.2 | 2.7 | 4.2 | 8.26 | 30.8 | 30.6 | 19.8 | 16.5 | 9.31 | 22.2 |
| Max.... | 8.0 | 9.0 | ..... | ..... | ..... | 16 | 74 | 110 | 33 | 42 | 20 | 65 |
| Min.... | 4.6 | 2.6 | ..... | ..... | ..... | 2 | 11 | 11 | 10 | 10 | 6.2 | 6.8 |
| Acre-ft. | 382 | 337 | 135 | 166 | 242 | 508 | 1830 | 1880 | 1180 | 1010 | 572 | 1320 |

Total run-off for water year 1939-40=9,560 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Bear Creek at Morrison, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|-------|------|------|------|------|-------|-------|-------|
| 1..... | 189 | 66 | 38 | 35 | 14 | 19 | 65 | 109 | 66 | 27 | 25 | 24 |
| 2..... | 155 | 68 | 36 | 36 | 6.2 | 26 | 65 | 109 | 58 | 26 | 24 | 17 |
| 3..... | 171 | 72 | 34 | 32 | 8.2 | 29 | 72 | 109 | 53 | 25 | 23 | 12 |
| 4..... | 140 | 70 | 34 | 24 | 8.9 | 28 | 74 | 109 | 49 | 22 | 20 | 9.6 |
| 5..... | 137 | 66 | 42 | 22 | 12 | 21 | 72 | 114 | 46 | 22 | 17 | 8.9 |
| 6..... | 140 | 52 | 39 | 23 | 16 | 19 | 62 | 114 | 43 | 21 | 15 | 9.6 |
| 7..... | 114 | 43 | 36 | 24 | 18 | 26 | 81 | 104 | 40 | 22 | 15 | 12 |
| 8..... | 114 | 54 | 38 | 23 | 10 | 33 | 95 | 107 | 40 | 24 | 18 | 21 |
| 9..... | 119 | 60 | 41 | 21 | 6.5 | 47 | 95 | 99 | 39 | 23 | 19 | 23 |
| 10..... | 104 | 58 | 38 | 20 | 10 | 83 | 90 | 99 | 37 | 21 | 12 | 18 |
| 11..... | 107 | 56 | 34 | 18 | 12 | 61 | 76 | 92 | 40 | 19 | 12 | 14 |
| 12..... | 87 | 40 | 25 | 22 | 19 | 48 | 83 | 97 | 43 | 15 | 12 | 12 |
| 13..... | 80 | 28 | 13 | 22 | 15 | 58 | 95 | 97 | 40 | 15 | 13 | 11 |
| 14..... | 68 | 27 | 22 | 20 | 13 | 48 | 92 | 109 | 38 | 14 | 13 | 12 |
| 15..... | 77 | 40 | 40 | 18 | 12 | 31 | 97 | 99 | 38 | 16 | 12 | 12 |
| 16..... | 81 | 34 | 36 | 20 | 14 | 31 | 95 | 92 | 34 | 13 | 12 | 12 |
| 17..... | 79 | 30 | 32 | 19 | 19 | 26 | 70 | 92 | 32 | 13 | 11 | 11 |
| 18..... | 76 | 27 | 34 | 22 | 22 | 37 | 90 | 85 | 29 | 14 | 9.6 | 9.6 |
| 19..... | 74 | 34 | 30 | 19 | 20 | 49 | 99 | 87 | 29 | 12 | 8.9 | 8.2 |
| 20..... | 72 | 37 | 25 | 18 | 15 | 57 | 95 | 81 | 30 | 12 | 9.6 | 8.2 |
| 21..... | 74 | 34 | 25 | 17 | 16 | 61 | 99 | 74 | 32 | 11 | 11 | 7.6 |
| 22..... | 72 | 28 | 26 | 17 | 23 | 62 | 109 | 70 | 31 | 10 | 8.9 | 7.6 |
| 23..... | 68 | 23 | 27 | 18 | 19 | 60 | 104 | 68 | 28 | 8.2 | 6.9 | 9.6 |
| 24..... | 72 | 25 | 31 | 20 | 22 | 63 | 107 | 65 | 27 | 6.2 | 6.2 | 9.6 |
| 25..... | 70 | 24 | 36 | 22 | 25 | 63 | 107 | 65 | 31 | 6.2 | 6.9 | 12 |
| 26..... | 68 | 24 | 22 | 12 | 23 | 58 | 107 | 66 | 30 | 8.2 | 7.6 | 12 |
| 27..... | 68 | 30 | 20 | 13 | 25 | 56 | 102 | 58 | 27 | 15 | 9.6 | 12 |
| 28..... | 66 | 39 | 22 | 19 | 20 | 42 | 122 | 58 | 25 | 19 | 14 | 12 |
| 29..... | 65 | 41 | 25 | 19 | .... | 45 | 126 | 56 | 26 | 17 | 17 | 16 |
| 30..... | 66 | 39 | 24 | 14 | .... | 48 | 114 | 52 | 29 | 23 | 27 | 15 |
| 31..... | 66 | .... | 26 | 16 | .... | 57 | .... | 52 | .... | 24 | 30 | .... |
| Total | 2939 | 1269 | 951 | 645 | 443.8 | 1392 | 2760 | 2688 | 1110 | 523.8 | 446.2 | 378.5 |
| Mean. | 94.8 | 42.3 | 30.7 | 20.8 | 15.8 | 44.9 | 92.0 | 86.7 | 37.0 | 16.9 | 14.4 | 12.6 |
| Max.. | 189 | 72 | 42 | 36 | 25 | 83 | 126 | 114 | 66 | 27 | 30 | 24 |
| Min.. | 65 | 23 | 13 | 12 | 6.2 | 19 | 62 | 52 | 25 | 6.2 | 6.2 | 7.6 |
| Acre-ft. | 5830 | 2520 | 1890 | 1280 | 880 | 2760 | 5470 | 5330 | 2200 | 1040 | 885 | 751 |

Total run-off for water year 1938-39=30,840 acre-feet.

Discharge of Bear Creek at Morrison, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|
| 1..... | 14 | 20 | 6.2 | 9.2 | 11 | 25 | 23 | 18 | 42 | 24 | 15 | 16 |
| 2..... | 12 | 22 | 6.2 | 9.2 | 11 | 19 | 24 | 17 | 40 | 26 | 15 | 14 |
| 3..... | 11 | 21 | 5.3 | 9.0 | 11 | 19 | 20 | 22 | 38 | 26 | 14 | 40 |
| 4..... | 11 | 17 | 5.3 | 8.4 | 11 | 15 | 18 | 28 | 37 | 29 | 16 | 39 |
| 5..... | 9.6 | 16 | 4.0 | 7.8 | 11 | 15 | 19 | 26 | 46 | 27 | 15 | 26 |
| 6..... | 10 | 16 | 4.0 | 7.2 | 11 | 20 | 23 | 24 | 41 | 24 | 16 | 21 |
| 7..... | 11 | 15 | 5.8 | 7.4 | 11 | 19 | 25 | 23 | 38 | 21 | 15 | 20 |
| 8..... | 12 | 15 | 6.2 | 8.0 | 11 | 19 | 19 | 29 | 34 | 20 | 15 | 22 |
| 9..... | 19 | 14 | 10 | 8.8 | 12 | 19 | 19 | 25 | 33 | 17 | 15 | 23 |
| 10..... | 20 | 15 | 8.9 | 9.6 | 12 | 19 | 20 | 25 | 38 | 16 | 15 | 32 |
| 11..... | 15 | 11 | 8.2 | 9.0 | 11 | 19 | 18 | 26 | 31 | 18 | 10 | 27 |
| 12..... | 16 | 13 | 9.6 | 8.8 | 10 | 15 | 13 | 29 | 27 | 19 | 12 | 23 |
| 13..... | 16 | 11 | 5.8 | 9.0 | 9 | 13 | 26 | 26 | 26 | 17 | 9.6 | 23 |
| 14..... | 16 | 11 | 5.8 | 9.4 | 8.6 | 17 | 23 | 22 | 25 | 12 | 8.2 | 30 |
| 15..... | 16 | 10 | 13 | 10 | 8.5 | 19 | 25 | 19 | 25 | 10 | 7.6 | 26 |
| 16..... | 15 | 6.9 | 12 | 11 | 8.4 | 25 | 29 | 22 | 25 | 21 | 9.6 | 24 |
| 17..... | 15 | 4.0 | 10 | 9 | 8.6 | 29 | 27 | 26 | 25 | 29 | 17 | 22 |
| 18..... | 15 | 1.7 | 6.9 | 8.6 | 8.6 | 22 | 24 | 37 | 21 | 26 | 16 | 20 |
| 19..... | 15 | 1.7 | 1.1 | 8.6 | 8.8 | 25 | 28 | 29 | 19 | 27 | 15 | 21 |
| 20..... | 15 | 3.1 | 8.9 | 8.8 | 10 | 26 | 32 | 28 | 17 | 26 | 23 | 34 |
| 21..... | 12 | 4.4 | 10 | 9.1 | 12 | 26 | 33 | 39 | 17 | 27 | 19 | 30 |
| 22..... | 4.0 | 6.2 | 8.9 | 8.8 | 11 | 26 | 31 | 34 | 18 | 25 | 19 | 38 |
| 23..... | 9.6 | 10 | 8.6 | 8.6 | 12 | 28 | 26 | 31 | 20 | 20 | 19 | 33 |
| 24..... | 10 | 8.9 | 8.0 | 8.5 | 13 | 28 | 27 | 32 | 19 | 16 | 17 | 40 |
| 25..... | 12 | 3.6 | 7.8 | 8.2 | 15 | 28 | 27 | 36 | 18 | 15 | 107 | 45 |
| 26..... | 11 | 0.8 | 7.2 | 8.8 | 14 | 28 | 36 | 38 | 20 | 16 | 38 | 40 |
| 27..... | 13 | 5.8 | 5.4 | 9.4 | 15 | 27 | 33 | 41 | 22 | 16 | 24 | 38 |
| 28..... | 16 | 9.6 | 4.9 | 10 | 20 | 25 | 30 | 41 | 25 | 16 | 18 | 34 |
| 29..... | 18 | 12 | 6.4 | 10 | 23 | 21 | 26 | 43 | 24 | 16 | 17 | 39 |
| 30..... | 17 | 6.9 | 7.8 | 11 | .... | 22 | 24 | 45 | 25 | 15 | 15 | 41 |
| 31..... | 22 | .... | 8.4 | 11 | .... | 22 | .... | 45 | .... | 16 | 15 | .... |
| Total | 428.2 | 312.6 | 226.6 | 280.2 | 338.5 | 680 | 747 | 926 | 836 | 633 | 587 | 881 |
| Mean. | 13.8 | 10.4 | 7.31 | 9.04 | 11.7 | 21.9 | 24.9 | 29.9 | 27.9 | 20.4 | 18.9 | 29.4 |
| Max.. | 22 | 22 | 13 | 11 | 23 | 29 | 36 | 45 | 46 | 29 | 107 | 45 |
| Min.. | 4 | 0.8 | 1.1 | 7.2 | 8.4 | 13 | 13 | 17 | 17 | 10 | 7.6 | 14 |
| Acre-ft. | 849 | 620 | 449 | 556 | 671 | 1350 | 1480 | 1840 | 1660 | 1260 | 1160 | 1750 |

Total run-off for water year 1939-40=13,640 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Bear Creek at Mouth at Sheridan Junction, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|--------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1..... | 41 | 5.7 | 64 | 45 | 22 | 3.6 | 47 | 98 | 12 | 6.5 | 5.3 | 4.0 |
| 2..... | 41 | 8.0 | 66 | 45 | 16 | 3.6 | 46 | 92 | 16 | 5.9 | 6.2 | 4.4 |
| 3..... | 40 | 15 | 56 | 47 | 19 | 3.4 | 65 | 73 | 12 | 5.6 | 6.2 | 4.0 |
| 4..... | 30 | 15 | 56 | 43 | 25 | 4.0 | 96 | 51 | 10 | 5.0 | 5.3 | 4.0 |
| 5..... | 20 | 17 | 54 | 35 | 21 | 2.6 | 98 | 41 | 9.2 | 5.3 | 5.9 | 5.0 |
| 6..... | 15 | 19 | 58 | 43 | 21 | 3.6 | 98 | 29 | 7.4 | 4.8 | 6.2 | 4.4 |
| 7..... | 16 | 23 | 52 | 45 | 24 | 6.5 | 128 | 26 | 7.4 | 5.3 | 5.6 | 4.6 |
| 8..... | 15 | 30 | 54 | 43 | 45 | 14 | 134 | 23 | 7.7 | 6.2 | 5.6 | 6.2 |
| 9..... | 11 | 40 | 58 | 45 | 42 | 19 | 136 | 25 | 6.2 | 4.0 | 4.4 | 5.3 |
| 10..... | 10 | 41 | 58 | 35 | 41 | 24 | 125 | 29 | 8.0 | 3.4 | 4.8 | 4.2 |
| 11..... | 13 | 38 | 58 | 27 | 39 | 48 | 128 | 27 | 15 | 5.0 | 3.8 | 4.6 |
| 12..... | 8.0 | 37 | 54 | 34 | 38 | 36 | 119 | 27 | 12 | 4.2 | 5.6 | 4.2 |
| 13..... | 7.2 | 34 | 31 | 41 | 38 | 37 | 121 | 30 | 9.2 | 2.4 | 7.1 | 5.0 |
| 14..... | 5.7 | 37 | 31 | 40 | 30 | 35 | 99 | 28 | 13 | 3.2 | 5.3 | 6.2 |
| 15..... | 5.1 | 37 | 50 | 25 | 40 | 14 | 125 | 25 | 12 | 4.8 | 3.4 | 5.3 |
| 16..... | 3.6 | 72 | 72 | 34 | 26 | 12 | 136 | 23 | 11 | 4.2 | 4.2 | 5.3 |
| 17..... | 3.0 | 82 | 60 | 34 | 33 | 10 | 119 | 22 | 10 | 3.6 | 3.0 | 5.0 |
| 18..... | 3.6 | 70 | 45 | 38 | 45 | 9.6 | 98 | 19 | 8.0 | 4.8 | 3.6 | 5.3 |
| 19..... | 4.5 | 66 | 49 | 38 | 38 | 16 | 94 | 19 | 6.5 | 4.2 | 3.6 | 6.2 |
| 20..... | 4.8 | 80 | 68 | 38 | 30 | 29 | 103 | 21 | 7.1 | 4.2 | 4.8 | 6.2 |
| 21..... | 4.2 | 80 | 66 | 37 | 21 | 47 | 98 | 20 | 7.1 | 4.2 | 3.8 | 5.0 |
| 22..... | 5.7 | 70 | 58 | 34 | 16 | 52 | 78 | 14 | 5.3 | 5.3 | 3.8 | 5.6 |
| 23..... | 4.5 | 68 | 49 | 31 | 14 | 51 | 89 | 12 | 4.4 | 4.8 | 4.0 | 5.3 |
| 24..... | 4.5 | 54 | 45 | 28 | 11 | 61 | 94 | 10 | 4.4 | 4.4 | 4.0 | 7.4 |
| 25..... | 4.5 | 64 | 47 | 28 | 11 | 73 | 82 | 9 | 5.6 | 4.6 | 3.6 | 7.4 |
| 26..... | 3.9 | 45 | 47 | 24 | 10 | 67 | 99 | 29 | 3.0 | 5.0 | 3.8 | 5.9 |
| 27..... | 3.6 | 66 | 30 | 26 | 17 | 61 | 96 | 19 | 6.2 | 6.2 | 3.8 | 5.9 |
| 28..... | 3.6 | 62 | 60 | 27 | 3.4 | 58 | 94 | 16 | 6.8 | 6.2 | 3.6 | 6.5 |
| 29..... | 3.6 | 60 | 54 | 25 | ..... | 58 | 94 | 21 | 6.5 | 5.9 | 3.8 | 8.0 |
| 30..... | 4.2 | 70 | 47 | 23 | ..... | 51 | 94 | 13 | 8.0 | 5.6 | 5.3 | 7.7 |
| 31..... | 5.7 | ..... | 47 | 27 | ..... | 46 | ..... | 12 | ..... | 5.6 | 4.2 | ..... |
| Total | 345.5 | 1405.7 | 1644 | 1083 | 736.4 | 955.9 | 3033 | 903.6 | 257.0 | 150.4 | 143.6 | 165.0 |
| Mean. | 11.1 | 46.9 | 53.0 | 34.9 | 26.3 | 30.8 | 101 | 29.1 | 8.57 | 4.85 | 4.63 | 5.50 |
| Max.. | 41 | 82 | 72 | 47 | 45 | 73 | 136 | 98 | 16 | 6.5 | 7.1 | 8.0 |
| Min.. | 3.0 | 5.7 | 3.0 | 2.3 | 3.4 | 2.6 | 4.6 | 9.6 | 3.0 | 2.4 | 3.0 | 4.0 |
| Acre-ft. | 685 | 2790 | 3260 | 2150 | 1460 | 1900 | 6020 | 1790 | 510 | 298 | 285 | 327 |

Total run-off for water year 1938-39=21,480 acre-feet.

Discharge of Bear Creek at Mouth at Sheridan Junction, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1..... | 5.3 | 8.0 | 10 | 10 | 10 | 7.4 | 6.5 | 5.0 | 4.2 | 3.4 | 6.5 | 2.4 |
| 2..... | 4.6 | 7.7 | 9.2 | 10 | 11 | 9.2 | 6.8 | 4.4 | 2.4 | 4.8 | 3.2 | 2.6 |
| 3..... | 5.0 | 7.7 | 9.2 | 10 | 11 | 10 | 6.5 | 3.0 | 2.4 | 4.2 | 3.6 | 3.0 |
| 4..... | 5.3 | 7.1 | 8.4 | 8.3 | 11 | 8.8 | 6.2 | 4.6 | 2.2 | 1.2 | 4.6 | 4.8 |
| 5..... | 5.0 | 6.8 | 8.8 | 8.0 | 11 | 8.8 | 5.6 | 4.0 | 2.0 | 8.4 | 6.5 | 4.4 |
| 6..... | 4.8 | 5.6 | 9.2 | 7.0 | 11 | 12 | 7.1 | 4.6 | 1.6 | 4.8 | 10 | 6.2 |
| 7..... | 5.0 | 6.8 | 9.2 | 7.4 | 11 | 14 | 6.2 | 3.8 | 1.4 | 4.4 | 12 | 5.9 |
| 8..... | 5.6 | 8.0 | 9.2 | 8.0 | 11 | 11 | 4.8 | 4.8 | 1.2 | 4.8 | 7.8 | 5.3 |
| 9..... | 5.9 | 8.8 | 9.6 | 8.5 | 12 | 14 | 5.0 | 3.8 | 0.9 | 3.8 | 2.8 | 7.1 |
| 10..... | 5.9 | 7.7 | 9.2 | 9.0 | 12 | 13 | 5.9 | 3.8 | 1.0 | 3.8 | 2.8 | 14 |
| 11..... | 5.9 | 7.4 | 8.8 | 8.3 | 9.4 | 15 | 6.5 | 4.4 | 1.2 | 5.0 | 2.8 | 10 |
| 12..... | 5.6 | 6.5 | 8.8 | 8.2 | 8.4 | 14 | 8.4 | 4.4 | 3.0 | 3.8 | 3.0 | 9.2 |
| 13..... | 5.6 | 6.5 | 9.2 | 8.6 | 7.8 | 16 | 5.3 | 4.0 | 4.2 | 3.8 | 3.6 | 7.4 |
| 14..... | 7.1 | 6.5 | 8.8 | 9.0 | 7.6 | 16 | 4.0 | 5.6 | 3.0 | 2.6 | 3.6 | 10 |
| 15..... | 6.8 | 7.1 | 8.4 | 9.9 | 7.6 | 16 | 3.6 | 5.9 | 2.8 | 2.6 | 2.6 | 9.2 |
| 16..... | 7.1 | 6.8 | 8.8 | 11 | 7.5 | 15 | 4.4 | 5.3 | 3.6 | 3.6 | 1.8 | 10 |
| 17..... | 7.1 | 6.5 | 8.0 | 9.0 | 7.5 | 15 | 6.2 | 8.0 | 3.2 | 8.4 | 2.4 | 10 |
| 18..... | 7.4 | 7.1 | 8.4 | 8.8 | 7.8 | 14 | 5.3 | 2.6 | 2.8 | 5.9 | 3.6 | 12 |
| 19..... | 6.5 | 6.8 | 11 | 8.6 | 7.4 | 14 | 4.4 | 8.8 | 2.8 | 5.6 | 3.4 | 12 |
| 20..... | 5.9 | 6.8 | 8.8 | 8.8 | 8.8 | 12 | 2.6 | 4.6 | 2.8 | 2.6 | 5.6 | 12 |
| 21..... | 7.1 | 7.4 | 8.0 | 9.0 | 12 | 11 | 2.6 | 13 | 2.8 | 2.6 | 5.0 | 16 |
| 22..... | 7.1 | 7.7 | 7.7 | 8.8 | 9.2 | 9.6 | 2.6 | 16 | 3.0 | 2.8 | 3.4 | 11 |
| 23..... | 7.7 | 7.7 | 8.0 | 8.7 | 7.1 | 10 | 2.8 | 11 | 4.6 | 2.8 | 3.6 | 10 |
| 24..... | 8.4 | 7.7 | 7.0 | 7.8 | 9.2 | 9.6 | 3.0 | 7.4 | 4.2 | 3.6 | 4.8 | 23 |
| 25..... | 8.8 | 8.4 | 7.1 | 7.0 | 9.6 | 8.8 | 3.0 | 10 | 5.0 | 3.8 | 6.7 | 11 |
| 26..... | 8.0 | 9.2 | 7.0 | 7.5 | 8.8 | 8.8 | 4.0 | 12 | 4.6 | 4.4 | 3.7 | 8.4 |
| 27..... | 7.1 | 8.0 | 6.8 | 8.2 | 7.4 | 8.8 | 4.2 | 16 | 4.4 | 7.4 | 10 | 7.7 |
| 28..... | 7.7 | 9.2 | 8.9 | 9.0 | 7.4 | 8.4 | 3.4 | 20 | 4.4 | 3.4 | 7.4 | 8.0 |
| 29..... | 8.4 | 9.6 | 8.8 | 9.8 | 7.1 | 7.7 | 3.6 | 14 | 2.8 | 3.4 | 5.3 | 7.1 |
| 30..... | 7.4 | 9.2 | 9.0 | 10 | ..... | 7.7 | 4.2 | 14 | 3.4 | 5.6 | 2.6 | 7.1 |
| 31..... | 8.0 | ..... | 9.8 | 10 | ..... | 6.8 | ..... | 10 | ..... | 4.6 | 2.6 | ..... |
| Total | 203.1 | 226.3 | 269.1 | 272.2 | 268.6 | 352.4 | 144.7 | 262.2 | 87.9 | 150.5 | 240.8 | 266.8 |
| Mean. | 6.55 | 7.54 | 8.68 | 8.78 | 9.26 | 11.4 | 4.82 | 8.46 | 2.93 | 4.85 | 7.77 | 8.89 |
| Max.. | 8.8 | 9.6 | 11 | 11 | 12 | 16 | 8.4 | 26 | 5.0 | 12 | 6.7 | 23 |
| Min.. | 4.6 | 5.6 | 6.8 | 7.0 | 7.1 | 6.8 | 2.6 | 3.0 | 0.9 | 2.6 | 1.8 | 2.4 |
| Acre-ft. | 403 | 449 | 534 | 540 | 533 | 699 | 287 | 520 | 174 | 299 | 478 | 529 |

Total run-off for water year 1939-40=5,440 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cherry Creek Near Franktown, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|---------|------|------|-------|-------|-------|-------|-------|-------|------|-------|
| 1..... | | | 3.2 | 3.5 | 3.1 | 52 | 15 | 5.5 | 9.5 | 1.4 | 1.2 | 1.6 |
| 2..... | | | 3.8 | 3.6 | 3.3 | 26 | 9.5 | 4.8 | 5.2 | 1.6 | 1.1 | 1.5 |
| 3..... | | | 3.6 | 3.6 | 3.8 | 13 | 7.2 | 3.8 | 3.6 | 1.7 | 1.1 | 6.9 |
| 4..... | | | 4.1 | 3.6 | 4.1 | 10 | 6.5 | 3.2 | 3.2 | 1.0 | 1.1 | 2.3 |
| 5..... | | | 3.6 | 3.4 | 3.8 | 15 | 5.2 | 3.0 | 1.7 | 4.8 | 1.1 | 5.2 |
| 6..... | | | 3.8 | 4.1 | 3.6 | 7.2 | 7.2 | 3.0 | 115 | 3.0 | 1.2 | 4.1 |
| 7..... | | | 4.8 | 3.8 | 3.6 | 7.8 | 17 | 3.0 | 26 | 1.7 | .8 | 6.2 |
| 8..... | | | 3.8 | 4.1 | 3.6 | 10 | 28 | 18 | 15 | 1.4 | .7 | 4.5 |
| 9..... | | | 3.6 | 3.8 | 4.0 | 6.9 | 38 | 11 | 18 | 1.3 | .8 | 4.1 |
| 10..... | | | 3.4 | 3.6 | 4.6 | 11 | 28 | 6.5 | 19 | 1.0 | .7 | 4.6 |
| 11..... | | | 2.8 | 3.4 | 4.4 | 17 | 26 | 5.2 | 13 | 2.0 | .7 | 1.5 |
| 12..... | | | 2.8 | 3.3 | 4.0 | 22 | 24 | 4.1 | 7.8 | 2.6 | .7 | 6.9 |
| 13..... | | | 3.2 | 3.2 | 4.8 | 42 | 58 | 4.1 | 7.2 | 2.4 | .7 | 5.8 |
| 14..... | | | 3.4 | 3.1 | 5.6 | 20 | 42 | 4.1 | 6.2 | 1.6 | .6 | 2.7 |
| 15..... | | | 2.2 | 3.1 | 5.0 | 23 | 28 | 3.6 | 5.8 | 1.4 | .6 | 7.8 |
| 16..... | | | 2.6 | 3.8 | 4.7 | 25 | 25 | 3.4 | 5.2 | 1.7 | .6 | 5.2 |
| 17..... | | | 2.6 | 3.6 | 4.7 | 34 | 24 | 12 | 3.8 | 1.6 | .7 | 3.2 |
| 18..... | | | 2.5 | 2.4 | 5.0 | 29 | 16 | 106 | 3.6 | 1.3 | .6 | 2.6 |
| 19..... | | Nov. 21 | 2.4 | 2.5 | 4.7 | 29 | 13 | 27 | 2.6 | 1.2 | .7 | 2.0 |
| 20..... | | to 30 | 2.7 | 2.7 | 4.5 | 42 | 11 | 12 | 2.4 | 1.3 | .7 | 1.6 |
| 21..... | | | 3.6 | 2.5 | 2.6 | 4.6 | 50 | 7.8 | 38 | 2.6 | 1.5 | .7 |
| 22..... | | | 2.8 | 2.0 | 2.5 | 4.7 | 52 | 7.2 | 52 | 2.6 | 1.6 | 1.5 |
| 23..... | | | 2.6 | 2.4 | 2.6 | 4.8 | 61 | 6.9 | 21 | 2.2 | 4.8 | 2.1 |
| 24..... | | | 3.0 | 2.6 | 2.5 | 4.8 | 50 | 5.8 | 12 | 2.2 | 2.8 | 6.5 |
| 25..... | | | 3.0 | 2.0 | 2.4 | 5.8 | 50 | 6.5 | 8.4 | 2.0 | 2.4 | 2.2 |
| 26..... | | | 2.8 | 2.0 | 3.0 | 7.2 | 48 | 21 | 5.2 | 1.8 | 2.6 | 10 |
| 27..... | | | 2.8 | 2.0 | 4.0 | 11 | 36 | 14 | 5.2 | 1.5 | 1.5 | 3.2 |
| 28..... | | | 3.0 | 2.1 | 4.6 | 2.2 | 34 | 6.5 | 31 | 1.5 | 1.1 | 2.6 |
| 29..... | | | 3.4 | 2.4 | 4.5 | 3.2 | 25 | 8.4 | 7.3 | 1.4 | 1.2 | 1.8 |
| 30..... | | | 3.2 | 2.8 | 3.4 | .... | 21 | 7.2 | 28 | 1.2 | 1.3 | 1.7 |
| 31..... | | | 3.2 | 3.3 | .... | .... | 18 | .... | 1.5 | .... | 1.2 | 1.8 |
| Total | | | 30.2 | 90.9 | 103.6 | 181.8 | 886.9 | 519.9 | 532.1 | 292.8 | 96.7 | 105.7 |
| Mean | | | 3.02 | 2.93 | 3.34 | 6.27 | 28.6 | 17.3 | 17.2 | 9.76 | 3.12 | 3.41 |
| Max. | | | 3.6 | 4.8 | 4.6 | 3.2 | 61 | 58 | 106 | 115 | 1.7 | 2.2 |
| Min. | | | 2.6 | 2.0 | 2.4 | 3.1 | 6.9 | 5.2 | 3.0 | 1.2 | 1.0 | .6 |
| Acre-ft. | | | 60 | 180 | 205 | 361 | 1760 | 1030 | 1060 | 581 | 192 | 210 |

Total run-off for period=6,200 acre-feet.

Discharge of Cherry Creek Near Melvin, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1..... | 0 | 0 | 0 | 5.0 | 2.0 | 22 | 11 | 9.9 | 8.8 | 0.3 | 4.0 | 1.3 |
| 2..... | 0 | 0 | 0 | 5.0 | 1.8 | 23 | 7.7 | 7.7 | 5.5 | .82 | 3.0 | 1.2 |
| 3..... | 0 | 0 | 0 | 5.5 | 1.5 | 32 | 9.9 | 7.7 | 3.3 | 200 | 2.0 | 126 |
| 4..... | 0 | 0 | 0 | 4.0 | 1.7 | 20 | 7.7 | 2.2 | 2.2 | 1.8 | 1.4 | 131 |
| 5..... | 0 | 0 | .6 | 3.5 | 1.8 | 29 | 11 | 1.1 | 1.1 | 1.2 | 1.0 | 7.2 |
| 6..... | 0 | 0 | 0 | 3.0 | 1.2 | 19 | 18 | 0 | 420 | 10 | .8 | 45.9 |
| 7..... | 0 | 0 | 0 | 3.5 | 7.2 | 28 | 31 | 0 | 87 | 5.0 | .6 | 3.3 |
| 8..... | 0 | 0 | .4 | 4.5 | 1.2 | 30 | 26 | 20 | 5.4 | 2.0 | .6 | 1.8 |
| 9..... | 0 | 0 | 2.0 | 5.0 | 2.0 | 28 | 43 | 22 | 30 | .9 | .6 | 15.7 |
| 10..... | 0 | 0 | .6 | 7.0 | 3.0 | 31 | 36 | 9.9 | 33 | .4 | .6 | 5.8 |
| 11..... | 0 | 0 | 0 | 5.5 | 7.2 | 33 | 40 | 5.5 | 22 | .36 | .4 | 2.6 |
| 12..... | 0 | 0 | 0 | 4.5 | 3.0 | 18 | 18 | 0 | 15 | 4.3 | .3 | 1.9 |
| 13..... | 0 | 0 | 0 | 4.0 | 2.5 | 31 | 50 | 0 | 9.8 | 2.6 | .2 | 10 |
| 14..... | 0 | 0 | .2 | 5.0 | 7.2 | 40 | 40 | 0 | 5.5 | 1.8 | .2 | 1.2 |
| 15..... | 0 | 0 | .3 | 4.5 | 4.0 | 34 | 22 | 0 | 3.5 | 1.2 | .2 | 1.4 |
| 16..... | 0 | 0 | .4 | 7.8 | 3.5 | 37 | 20 | 0 | 3.0 | 1.2 | .2 | 1.1 |
| 17..... | 0 | 0 | 1.5 | 5.0 | 1.4 | 37 | 26 | 4.4 | 1.4 | 9.8 | .2 | 7.8 |
| 18..... | 0 | 0 | .8 | 3.5 | 1.9 | 41 | 20 | 7.0 | .9 | 5.5 | .2 | 4.0 |
| 19..... | 0 | 0 | 0 | 2.5 | 1.7 | 41 | 11 | 2.9 | .8 | 3.5 | .2 | 2.5 |
| 20..... | 0 | 0 | 0 | 2.0 | 2.0 | 48 | 20 | 20 | 4 | 1.5 | .2 | 2.5 |
| 21..... | 0 | 0 | .9 | 1.8 | 2.8 | 56 | 20 | 43 | .4 | 6.0 | .2 | 4.0 |
| 22..... | 0 | 0 | .6 | 1.8 | 3.3 | 54 | 7.7 | 4.3 | .2 | 1.3 | 1.95 | 2.8 |
| 23..... | 0 | 0 | .4 | 1.5 | 3.3 | 63 | 9.9 | 1.5 | .2 | 5.5 | .36 | 2.6 |
| 24..... | 0 | 0 | 1.4 | 1.4 | 3.2 | 40 | 13 | 1.5 | .2 | .9 | 7.8 | 2.3 |
| 25..... | 0 | 0 | .8 | 1.3 | 3.2 | 36 | 18 | 11 | .2 | .6 | 300 | 2.1 |
| 26..... | 0 | 0 | .8 | 1.7 | 3.4 | 31 | 4.6 | 11 | .3 | .6 | 3.8 | 1.9 |
| 27..... | 0 | 0 | .8 | 2.0 | 3.3 | 13 | 20 | 2.2 | .3 | 2.5 | 20 | 1.7 |
| 28..... | 0 | 0 | .3 | 2.0 | 3.2 | 9.9 | 9.9 | 2.9 | .2 | 1.89 | 1.6 | 1.6 |
| 29..... | 0 | 0 | 1.4 | 4.0 | 2.6 | 15 | 18 | 5.3 | .2 | 10 | 1.5 | 1.5 |
| 30..... | 0 | 0 | 1.8 | 1.7 | .... | 13 | 18 | 5.9 | .2 | 4.0 | 1.4 | 1.5 |
| 31..... | 0 | .... | 4.0 | 2.3 | .... | 13 | .... | 2.2 | .... | 4.5 | 1.4 | .... |
| Total | 0 | 0 | 18.8 | 147.8 | 493.8 | 965.9 | 648.8 | 532.4 | 709.6 | 734.5 | 672.9 | 1407.8 |
| Mean | 0 | 0 | .61 | 4.77 | 17.0 | 31.2 | 21.6 | 17.2 | 23.7 | 23.7 | 21.7 | 46.9 |
| Max. | 0 | 0 | 4.0 | 2.3 | 3.4 | 63 | 50 | 70 | 420 | 200 | 300 | 45.9 |
| Min. | 0 | 0 | 0 | 1.3 | 1.2 | 9.9 | 7.7 | 0 | .2 | .3 | .2 | 2.5 |
| Acre-ft. | 0 | 0 | 37 | 293 | 979 | 1920 | 1290 | 1060 | 1410 | 1460 | 1330 | 2790 |

Total run-off for water year 1939-40=12,570 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Clear Creek Near Golden, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|------|------|------|------|------|-------|-------|-------|------|-------|
| 1.... | 231 | 128 | .... | .... | .... | 67 | 86 | 342 | 798 | 387 | 188 | 106 |
| 2.... | 218 | 143 | .... | .... | .... | 67 | 86 | 387 | 705 | 368 | 188 | 94 |
| 3.... | 213 | 128 | .... | .... | .... | 68 | 96 | 414 | 685 | 348 | 167 | 90 |
| 4.... | 213 | 128 | .... | .... | .... | 65 | 98 | 414 | 776 | 330 | 155 | 80 |
| 5.... | 231 | 146 | .... | .... | .... | 65 | 115 | 407 | 798 | 330 | 147 | 80 |
| 6.... | 231 | 111 | .... | *70 | .... | 66 | 106 | 470 | 787 | 325 | 141 | 79 |
| 7.... | 222 | 108 | .... | .... | .... | 69 | 92 | 387 | 745 | 315 | 164 | 80 |
| 8.... | 190 | 170 | .... | .... | .... | 70 | 92 | 354 | 695 | 325 | 161 | 90 |
| 9.... | 174 | 166 | .... | .... | .... | 70 | 94 | 335 | 636 | 325 | 141 | 88 |
| 10.... | 199 | 136 | .... | .... | .... | 72 | 96 | 387 | 655 | 310 | 108 | 84 |
| 11.... | 195 | 132 | .... | .... | .... | 80 | 96 | 400 | 645 | 305 | 118 | 82 |
| 12.... | 199 | 99 | .... | .... | .... | 76 | 96 | 394 | 636 | 310 | 110 | 80 |
| 13.... | 195 | 67 | .... | .... | .... | 74 | 108 | 380 | 645 | 300 | 110 | 80 |
| 14.... | 186 | 65 | .... | .... | *55 | 73 | 112 | 380 | 695 | 285 | 106 | 82 |
| 15.... | 182 | 64 | .... | .... | .... | 54 | 115 | 428 | 705 | 280 | 100 | 79 |
| 16.... | 174 | 65 | .... | .... | .... | 80 | 118 | 526 | 665 | 280 | 96 | 79 |
| 17.... | 154 | 68 | .... | .... | .... | 67 | 100 | 494 | 645 | 271 | 118 | 79 |
| 18.... | 150 | 70 | .... | .... | .... | 79 | 106 | 486 | 626 | 257 | 115 | 77 |
| 19.... | 158 | 70 | .... | *65 | .... | 82 | 122 | 542 | 560 | 239 | 115 | 73 |
| 20.... | 150 | 70 | .... | .... | .... | 92 | 125 | 685 | 526 | 227 | 118 | 73 |
| 21.... | 150 | 70 | .... | .... | .... | 92 | 129 | 715 | 494 | 210 | 110 | 71 |
| 22.... | 146 | 68 | .... | .... | .... | 98 | 152 | 735 | 442 | 202 | 110 | 70 |
| 23.... | 132 | 68 | .... | .... | .... | 98 | 198 | 818 | 414 | 191 | 106 | 70 |
| 24.... | 136 | 69 | .... | .... | .... | 98 | 198 | 787 | 428 | 191 | 102 | 71 |
| 25.... | 132 | 72 | .... | .... | .... | 90 | 210 | 766 | 456 | 188 | 104 | 82 |
| 26.... | 136 | 70 | .... | .... | .... | 92 | 218 | 665 | 421 | 188 | 94 | 86 |
| 27.... | 139 | 76 | .... | .... | .... | 98 | 248 | 616 | 414 | 198 | 90 | 84 |
| 28.... | 136 | 75 | .... | .... | .... | 77 | 267 | 588 | 421 | 195 | 88 | 80 |
| 29.... | 132 | 74 | .... | .... | .... | 82 | 315 | 665 | 421 | 178 | 98 | 79 |
| 30.... | 128 | 74 | .... | .... | .... | 80 | 325 | 725 | 407 | 174 | 112 | 71 |
| 31.... | 128 | .... | .... | .... | .... | 84 | .... | 766 | .... | 191 | 115 | .... |
| Total | 5360 | 2850 | 2170 | 2077 | 1680 | 2425 | 4319 | 16458 | 17946 | 8223 | 3795 | 2419 |
| Mean. | 173 | 95.0 | 70.0 | 67.0 | 60.0 | 78.2 | 144 | 531 | 598 | 265 | 122 | 80.6 |
| Max. | 231 | 170 | .... | .... | .... | 98 | 325 | 818 | 798 | 387 | 188 | 106 |
| Min. | 128 | 64 | .... | .... | .... | 54 | 86 | 335 | 407 | 174 | 88 | 70 |
| Acre-ft. | 10630 | 5650 | 4300 | 4120 | 3330 | 4810 | 8570 | 32640 | 35600 | 16310 | 7530 | 4800 |

Total run-off for water year 1938-39=138,290 acre-feet.

*Discharge measurement.

Discharge of Clear Creek Near Golden, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|-------|------|-------|
| 1.... | 67 | 48 | 33 | 29 | 40 | 54 | 54 | 72 | 705 | 494 | 227 | 104 |
| 2.... | 64 | 48 | 31 | 28 | 39 | 51 | 57 | 72 | 745 | 502 | 210 | 102 |
| 3.... | 62 | 47 | 32 | 28 | 39 | 48 | 51 | 85 | 766 | 494 | 202 | 106 |
| 4.... | 62 | 45 | 32 | 27 | 38 | 46 | 48 | 120 | 745 | 470 | 198 | 128 |
| 5.... | 58 | 47 | 28 | 25 | 38 | 44 | 51 | 155 | 776 | 421 | 198 | 112 |
| 6.... | 58 | 47 | 26 | 23 | 40 | 42 | 60 | 152 | 735 | 394 | 198 | 104 |
| 7.... | 60 | 45 | 27 | 24 | 42 | 40 | 57 | 188 | 578 | 354 | 191 | 102 |
| 8.... | 60 | 47 | 22 | 25 | 45 | 41 | 50 | 227 | 588 | 325 | 181 | 104 |
| 9.... | 70 | 50 | 25 | 27 | 44 | 44 | 50 | 191 | 502 | 305 | 158 | 130 |
| 10.... | 64 | 40 | 25 | 29 | 43 | 47 | 51 | 218 | 470 | 300 | 155 | 178 |
| 11.... | 64 | 43 | 24 | 30 | 45 | 46 | 45 | 290 | 510 | 325 | 158 | 147 |
| 12.... | 61 | 44 | 22 | 30 | 47 | 43 | 38 | 361 | 560 | 320 | 135 | 118 |
| 13.... | 61 | 43 | 21 | 29 | 48 | 40 | 55 | 400 | 588 | 295 | 128 | 125 |
| 14.... | 68 | 40 | 20 | 28 | 47 | 41 | 54 | 325 | 695 | 276 | 118 | 128 |
| 15.... | 70 | 38 | 21 | 30 | 45 | 43 | 61 | 315 | 725 | 257 | 128 | 118 |
| 16.... | 68 | 40 | 23 | 31 | 47 | 47 | 68 | 387 | 645 | 267 | 104 | 108 |
| 17.... | 68 | 39 | 23 | 30 | 47 | 48 | 67 | 486 | 685 | 290 | 118 | 108 |
| 18.... | 70 | 42 | 21 | 28 | 45 | 46 | 60 | 394 | 685 | 374 | 110 | 110 |
| 19.... | 68 | 34 | 20 | 28 | 44 | 44 | 66 | 315 | 665 | 407 | 122 | 108 |
| 20.... | 64 | 39 | 19 | 30 | 45 | 47 | 76 | 295 | 705 | 348 | 135 | 125 |
| 21.... | 62 | 40 | 21 | 32 | 46 | 45 | 85 | 330 | 715 | 315 | 141 | 125 |
| 22.... | 62 | 42 | 22 | 34 | 46 | 45 | 90 | 280 | 695 | 305 | 158 | 128 |
| 23.... | 55 | 41 | 21 | 34 | 46 | 54 | 85 | 262 | 636 | 280 | 128 | 110 |
| 24.... | 47 | 39 | 20 | 32 | 48 | 55 | 96 | 280 | 607 | 262 | 125 | 122 |
| 25.... | 48 | 35 | 19 | 33 | 50 | 54 | 102 | 295 | 560 | 253 | 171 | 118 |
| 26.... | 50 | 32 | 20 | 35 | 53 | 55 | 92 | 315 | 534 | 235 | 155 | 112 |
| 27.... | 48 | 30 | 20 | 36 | 54 | 57 | 100 | 348 | 486 | 239 | 152 | 130 |
| 28.... | 47 | 31 | 21 | 35 | 56 | 55 | 104 | 348 | 510 | 280 | 144 | 125 |
| 29.... | 47 | 33 | 23 | 37 | 55 | 47 | 92 | 449 | 518 | 276 | 128 | 158 |
| 30.... | 37 | 34 | 24 | 39 | .... | 48 | 78 | 502 | 478 | 267 | 120 | 150 |
| 31.... | 48 | .... | 27 | 41 | .... | 50 | .... | 569 | .... | 257 | 115 | .... |
| Total | 1830 | 1223 | 733 | 947 | 1322 | 1467 | 2043 | 9026 | 18812 | 10187 | 4711 | 3643 |
| Mean. | 59.0 | 40.8 | 23.6 | 30.5 | 45.6 | 47.3 | 68.1 | 291 | 627 | 329 | 152 | 121 |
| Max. | 70 | 50 | 33 | 41 | 56 | 57 | 104 | 569 | 776 | 502 | 227 | 178 |
| Min. | 37 | 30 | 19 | 23 | 38 | 40 | 38 | 72 | 470 | 235 | 104 | 102 |
| Acre-ft. | 3630 | 2430 | 1450 | 1880 | 2620 | 2910 | 4050 | 17900 | 37310 | 20210 | 9340 | 7230 |

Total run-off for water year 1939-40=110,960 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Clear Creek at Mouth Near Derby, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|--------|------|------|------|------|------|------|-------|--------|-------|-------|
| 1.... | 12 | 5.0 | 81 | 59 | 30 | 79 | 70 | 58 | 373 | 134 | 13 | 1.5 |
| 2.... | 12 | 9.2 | 51 | 50 | 32 | 90 | 62 | 62 | 493 | 93 | 12 | 1.3 |
| 3.... | 12 | 22 | 43 | 39 | 38 | 70 | 45 | 66 | 498 | 85 | 12 | 1.2 |
| 4.... | 12 | 60 | 42 | 32 | 50 | 68 | 29 | 68 | 487 | 76 | 10 | 1.2 |
| 5.... | 12 | 121 | 43 | 26 | 50 | 63 | 17 | 68 | 503 | 68 | 10 | 1.5 |
| 6.... | 23 | 117 | 41 | 43 | 50 | 67 | 128 | 71 | 496 | 49 | 12 | 1.5 |
| 7.... | 35 | 100 | 42 | 30 | 60 | 81 | 106 | 70 | 392 | 46 | 15 | 1.6 |
| 8.... | 37 | 112 | 37 | 36 | 60 | 102 | 114 | 68 | 297 | 49 | 13 | 2.1 |
| 9.... | 32 | 110 | 36 | 36 | 65 | 94 | 92 | 66 | 221 | 49 | 12 | 1.7 |
| 10.... | 33 | 114 | 32 | 45 | 67 | 98 | 84 | 64 | 259 | 45 | 11 | 1.3 |
| 11.... | 37 | 106 | 29 | 43 | 64 | 121 | 47 | 62 | 312 | 45 | 10 | 1.1 |
| 12.... | 49 | 94 | 30 | 50 | 66 | 82 | 56 | 58 | 351 | 45 | 5.9 | 1.1 |
| 13.... | 65 | 82 | 31 | 43 | 75 | 88 | 49 | 53 | 286 | 44 | 5.9 | 1.1 |
| 14.... | 57 | 88 | 63 | 49 | 78 | 86 | 43 | 48 | 283 | 45 | 5.0 | 1.1 |
| 15.... | 47 | 90 | 60 | 45 | 80 | 63 | 92 | 46 | 351 | 47 | 4.0 | 1.1 |
| 16.... | 39 | 90 | 45 | 35 | 75 | 67 | 112 | 55 | 343 | 29 | 3.0 | 1.2 |
| 17.... | 30 | 98 | 45 | 44 | 75 | 67 | 102 | 71 | 243 | 12 | 2.5 | 1.3 |
| 18.... | 18 | 98 | 48 | 63 | 77 | 67 | 88 | 151 | 190 | 12 | 1.9 | 1.1 |
| 19.... | 11 | 98 | 48 | 56 | 81 | 82 | 92 | 16 | 160 | 10 | 2.1 | 1.0 |
| 20.... | 26 | 100 | 48 | 50 | 82 | 84 | 88 | 84 | 206 | 12 | 2.2 | 1.0 |
| 21.... | 28 | 98 | 50 | 45 | 79 | 88 | 94 | 60 | 297 | 12 | 2.1 | 1.0 |
| 22.... | 16 | 96 | 51 | 50 | 81 | 88 | 84 | 74 | 246 | 12 | 1.8 | 1.1 |
| 23.... | 14 | 94 | 52 | 55 | 81 | 86 | 38 | 187 | 172 | 11 | 1.6 | 1.1 |
| 24.... | 14 | 98 | 53 | 50 | 86 | 88 | 28 | 168 | 166 | 12 | 1.5 | 1.1 |
| 25.... | 9.2 | 100 | 60 | 50 | 82 | 88 | 26 | 168 | 184 | 12 | 1.7 | 1.1 |
| 26.... | 7.8 | 88 | 60 | 50 | 81 | 81 | 22 | 311 | 192 | 9.2 | 1.7 | 1.0 |
| 27.... | 7.8 | 121 | 53 | 50 | 65 | 84 | 28 | 165 | 156 | 11 | 1.5 | 0.9 |
| 28.... | 7.1 | 112 | 59 | 55 | 92 | 68 | 25 | 98 | 146 | 12 | 1.2 | 1.2 |
| 29.... | 5.7 | 104 | 60 | 45 | .... | 68 | 33 | 117 | 142 | 14 | 1.3 | 1.8 |
| 30.... | 5.0 | 106 | 59 | 45 | .... | 67 | 50 | 140 | 132 | 17 | 1.5 | 1.9 |
| 31.... | 5.0 | 60 | 60 | 35 | .... | 60 | .... | 162 | .... | 18 | 1.6 | .... |
| Total | 718.6 | 2731.2 | 1512 | 1404 | 1902 | 2485 | 1944 | 2955 | 8577 | 1135.2 | 180.0 | 38.2 |
| Mean. | 23.2 | 91.0 | 48.8 | 45.3 | 67.9 | 80.2 | 64.8 | 95.3 | 286 | 36.6 | 5.81 | 1.27 |
| Max. | 65 | 121 | 81 | 63 | 92 | 121 | 128 | 311 | 513 | 134 | 15 | 2.1 |
| Min. | 5.0 | 5.0 | 29 | 26 | 30 | 60 | 17 | 16 | 132 | 9.2 | 1.2 | 0.9 |
| Acre-ft. | 1430 | 5420 | 3000 | 2780 | 3770 | 4930 | 3860 | 5860 | 17010 | 2250 | 357 | 76 |

Total run-off for water year 1938-39==50,743 acre-feet.

Discharge of Clear Creek at Mouth, Near Derby, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|-------|------|-------|-------|--------|-------|------|-------|--------|
| 1.... | 1.9 | 5.6 | 37 | 25 | 21 | 22 | 4.9 | 5.9 | 97 | 162 | 13 | 5.3 |
| 2.... | 1.6 | 3.7 | 41 | 26 | 20 | 38 | 7.8 | 4.9 | 154 | 227 | 12 | 5.3 |
| 3.... | 1.0 | 3.7 | 39 | 26 | 17 | 37 | 7.8 | 4.9 | 290 | 269 | 12 | 6.2 |
| 4.... | 0.9 | 3.9 | 37 | 22 | 18 | 26 | 6.9 | 4.6 | 400 | 190 | 10 | 6.2 |
| 5.... | 0.9 | 3.9 | 33 | 18 | 19 | 22 | 6.9 | 5.6 | 421 | 129 | 10 | 6.9 |
| 6.... | 0.9 | 3.1 | 26 | 13 | 19 | 31 | 11 | 6.9 | 351 | 96 | 11 | 7.5 |
| 7.... | 0.9 | 2.2 | 26 | 14 | 19 | 31 | 12 | 9.2 | 144 | 87 | 10 | 12 |
| 8.... | 0.9 | 3.5 | 26 | 15 | 18 | 32 | 8.9 | 4.1 | 99 | 57 | 10 | 6.9 |
| 9.... | 1.5 | 3.9 | 24 | 16 | 19 | 49 | 8.9 | 24 | 246 | 26 | 9.6 | 18 |
| 10.... | 1.5 | 3.3 | 20 | 17 | 20 | 42 | 10 | 17 | 212 | 16 | 8.6 | 87 |
| 11.... | 2.1 | 3.5 | 16 | 15 | 19 | 32 | 7.8 | 20 | 164 | 13 | 8.2 | 19 |
| 12.... | 2.9 | 3.1 | 14 | 13 | 17 | 30 | 12 | 21 | 230 | 53 | 6.9 | 8.9 |
| 13.... | 2.9 | 2.1 | 14 | 12 | 18 | 28 | 12 | 31 | 246 | 54 | 4.9 | 9.2 |
| 14.... | 3.3 | 1.9 | 15 | 13 | 19 | 26 | 8.6 | 22 | 312 | 18 | 3.5 | 27 |
| 15.... | 2.9 | 2.1 | 15 | 15 | 19 | 24 | 6.5 | 15 | 355 | 16 | 2.5 | 38 |
| 16.... | 3.1 | 2.5 | 16 | 16 | 18 | 22 | 10 | 19 | 272 | 27 | 2.2 | 31 |
| 17.... | 2.3 | 3.1 | 16 | 12 | 17 | 22 | 20 | 6.9 | 297 | 29 | 2.2 | 7.5 |
| 18.... | 2.1 | 3.7 | 16 | 8 | 16 | 24 | 9.6 | 9.2 | 272 | 94 | 2.1 | 7.2 |
| 19.... | 1.9 | 2.7 | 16 | 10 | 16 | 23 | 7.5 | 4.6 | 259 | 121 | 1.9 | 8.2 |
| 20.... | 1.9 | 2.2 | 16 | 9.2 | 17 | 21 | 7.2 | 24 | 320 | 72 | 1.8 | 5.6 |
| 21.... | 2.2 | 1.9 | 20 | 8.8 | 18 | 18 | 6.9 | 81 | 327 | 54 | 1.7 | 21.8 |
| 22.... | 2.2 | 2.3 | 20 | 9.8 | 19 | 16 | 6.9 | 70 | 324 | 38 | 2.3 | 10.6 |
| 23.... | 2.1 | 2.3 | 20 | 9.0 | 20 | 15 | 6.5 | 5.8 | 294 | 22 | 3.7 | 10.2 |
| 24.... | 2.1 | 2.3 | 21 | 8.6 | 22 | 15 | 6.5 | 5.2 | 286 | 14 | 5.6 | 10.2 |
| 25.... | 2.3 | 2.5 | 22 | 8.4 | 26 | 9.6 | 6.9 | 4.8 | 203 | 30 | 6.9 | 12.9 |
| 26.... | 2.2 | 2.3 | 22 | 9.6 | 23 | 6.9 | 8.6 | 4.6 | 190 | 45 | 20 | 8.2 |
| 27.... | 2.3 | 2.3 | 29 | 11 | 18 | 6.9 | 10 | 4.8 | 138 | 50 | 9.2 | 7.4 |
| 28.... | 2.9 | 1.6 | 27 | 14 | 16 | 6.2 | 12 | 5.5 | 78 | 59 | 8.9 | 68 |
| 29.... | 6.9 | 40 | 29 | 16 | 15 | 4.6 | 11 | 7.2 | 106 | 37 | 7.5 | 6.8 |
| 30.... | 17 | 38 | 30 | 18 | .... | 4.6 | 7.8 | 6.9 | 136 | 16 | 5.9 | 9.0 |
| 31.... | 12 | .... | 31 | 20 | .... | 4.1 | .... | 5.3 | .... | 18 | 5.9 | .... |
| Total | 92.1 | 173.5 | 734 | 448.4 | 543 | 688.9 | 269.4 | 1135.0 | 7223 | 2139 | 220.0 | 1392.3 |
| Mean. | 2.97 | 5.78 | 23.7 | 14.5 | 18.7 | 22.2 | 8.98 | 36.6 | 241 | 69.0 | 7.10 | 46.4 |
| Max. | 17 | 40 | 41 | 26 | 26 | 49 | 20 | 9.2 | 421 | 269 | 20 | 21.8 |
| Min. | 0.9 | 1.9 | 14 | 8 | 15 | 4.1 | 4.9 | 4.6 | 78 | 13 | 1.7 | 5.3 |
| Acre-ft. | 183 | 344 | 1460 | 889 | 1080 | 1370 | 534 | 2250 | 14330 | 4240 | 436 | 2760 |

Total run-off for water year 1939-40==29,880 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Boulder Creek Near Eldorado Springs, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|------|------|-------|------|-------|-------|-------|------|-------|-------|
| 1..... | 50 | 22 | 18 | 13 | 9 | 9 | 42 | 212 | 362 | 92 | 31 | 13 |
| 2..... | 45 | 24 | 7 | 15 | 7 | 9 | 42 | 222 | 252 | 77 | 30 | 11 |
| 3..... | 52 | 21 | 4 | 15 | 6 | 9 | 47 | 235 | 220 | 70 | 27 | 6.6 |
| 4..... | 40 | 18 | 4 | 14 | 6 | 8 | 42 | 224 | 281 | 68 | 26 | 5.4 |
| 5..... | 40 | 26 | 5 | 13 | 6 | 8 | 62 | 258 | 292 | 67 | 22 | 5.6 |
| 6..... | 41 | 16 | 5 | 13 | 7 | 7 | 42 | 261 | 188 | 52 | 22 | 6.8 |
| 7..... | 48 | 13 | 5 | 12 | 8 | 7 | 48 | 231 | 201 | 52 | 28 | 7.0 |
| 8..... | 50 | 27 | 6 | 12 | 10 | 9 | 54 | 200 | 206 | 58 | 25 | 10 |
| 9..... | 33 | 31 | 11 | 13 | 9 | 9 | 64 | 223 | 203 | 56 | 18 | 8.5 |
| 10..... | 33 | 28 | 14 | 13 | 8 | 10 | 64 | 226 | 184 | 55 | 18 | 5.8 |
| 11..... | 33 | 21 | 14 | 13 | 7 | 13 | 55 | 208 | 182 | 55 | 22 | 5.8 |
| 12..... | 33 | 24 | 13 | 14 | 7 | 12 | 52 | 181 | 161 | 53 | 15 | 6.2 |
| 13..... | 27 | 8 | 13 | 13 | 8 | 12 | 71 | 170 | 161 | 51 | 13 | 5.8 |
| 14..... | 23 | 14 | 14 | 12 | 9 | 13 | 78 | 205 | 161 | 46 | 13 | 10 |
| 15..... | 18 | 20 | 16 | 11 | 11 | 12 | 81 | 223 | 171 | 40 | 12 | 6.2 |
| 16..... | 13 | 29 | 15 | 11 | 10 | 11 | 97 | 223 | 154 | 48 | 12 | 5.0 |
| 17..... | 15 | 21 | 15 | 12 | 10 | 11 | 98 | 183 | 134 | 42 | 13 | 5.2 |
| 18..... | 15 | 19 | 14 | 13 | 10 | 10 | 105 | 198 | 136 | 34 | 12 | 4.6 |
| 19..... | 32 | 21 | 15 | 14 | 9 | 13 | 97 | 264 | 116 | 31 | 12 | 4.2 |
| 20..... | 23 | 24 | 15 | 14 | 9 | 16 | 98 | 264 | 96 | 35 | 12 | 4.3 |
| 21..... | 30 | 23 | 14 | 15 | 9 | 22 | 101 | 264 | 93 | 45 | 13 | 4.8 |
| 22..... | 31 | 23 | 13 | 15 | 9 | 21 | 116 | 278 | 83 | 47 | 12 | 4.9 |
| 23..... | 29 | 23 | 13 | 15 | 10 | 22 | 125 | 252 | 88 | 31 | 12 | 4.5 |
| 24..... | 24 | 24 | 12 | 14 | 10 | 24 | 127 | 245 | 84 | 29 | 9.4 | 7.6 |
| 25..... | 22 | 26 | 13 | 13 | 10 | 26 | 119 | 226 | 80 | 28 | 12 | 9.1 |
| 26..... | 24 | 24 | 11 | 12 | 9 | 30 | 122 | 183 | 73 | 28 | 10 | 10 |
| 27..... | 22 | 22 | 10 | 11 | 9 | 31 | 134 | 155 | 82 | 35 | 11 | 5.4 |
| 28..... | 24 | 16 | 12 | 12 | 9 | 23 | 158 | 164 | 78 | 32 | 12 | 5.0 |
| 29..... | 14 | 17 | 14 | 13 | ..... | 25 | 175 | 218 | 76 | 26 | 11 | 8.2 |
| 30..... | 8.6 | 18 | 13 | 10 | ..... | 30 | 184 | 292 | 75 | 31 | 13 | 5.0 |
| 31..... | 12 | ..... | 13 | 10 | ..... | 36 | ..... | 299 | ..... | 36 | 12 | ..... |
| Total | 897.6 | 643 | 361 | 400 | 241 | 498 | 2698 | 6990 | 4673 | 1452 | 510.4 | 200.9 |
| Mean. | 29.0 | 21.4 | 11.6 | 12.9 | 8.61 | 16.1 | 89.9 | 225 | 156 | 46.8 | 16.5 | 6.70 |
| Max. | 52 | 31 | 18 | 15 | 11 | 36 | 184 | 299 | 362 | 92 | 31 | 13 |
| Min. | 8.6 | 8.0 | 4 | 10 | 6 | 7 | 42 | 155 | 73 | 26 | 9.4 | 4.2 |
| Acre-ft. | 1780 | 1280 | 716 | 793 | 478 | 988 | 5350 | 13860 | 9270 | 2880 | 1010 | 398 |

Total run-off for water year 1938-39=38,800 acre-feet.

Discharge of South Boulder Creek Near Eldorado Springs, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|------|-------|
| 1..... | 5.4 | 7.6 | 3.1 | 6.2 | 8.0 | 10 | 25 | 51 | 261 | 130 | 30 | 14 |
| 2..... | 6.0 | 6.0 | 3.6 | 6.5 | 7.8 | 10 | 32 | 52 | 266 | 130 | 29 | 13 |
| 3..... | 5.2 | 2.2 | 4.6 | 6.4 | 7.5 | 7.5 | 26 | 66 | 266 | 130 | 27 | 15 |
| 4..... | 5.4 | 2.1 | 4.3 | 6.0 | 7.0 | 7.4 | 24 | 83 | 247 | 139 | 25 | 34 |
| 5..... | 6.2 | 2.0 | 3.9 | 4.9 | 6.3 | 8.4 | 26 | 96 | 257 | 124 | 21 | 22 |
| 6..... | 5.6 | 2.2 | 3.6 | 3.6 | 7.0 | 8.8 | 27 | 90 | 243 | 130 | 25 | 19 |
| 7..... | 6.6 | 3.8 | 3.2 | 4.2 | 7.7 | 7.2 | 24 | 107 | 195 | 97 | 25 | 18 |
| 8..... | 6.0 | 4.0 | 3.7 | 5.4 | 7.2 | 7.0 | 21 | 110 | 176 | 83 | 20 | 16 |
| 9..... | 8.8 | 3.2 | 4.1 | 6.2 | 6.5 | 7.6 | 20 | 91 | 158 | 79 | 21 | 20 |
| 10..... | 9.1 | 8.2 | 3.9 | 6.6 | 7.2 | 8.3 | 20 | 102 | 145 | 77 | 17 | 46 |
| 11..... | 7.0 | 15 | 3.7 | 7.0 | 6.0 | 8.7 | 21 | 119 | 162 | 73 | 18 | 31 |
| 12..... | 7.9 | 12 | 3.5 | 7.4 | 5.8 | 7.7 | 22 | 142 | 169 | 69 | 15 | 26 |
| 13..... | 6.8 | 5.6 | 1.9 | 7.2 | 6.4 | 7.3 | 22 | 155 | 176 | 62 | 15 | 25 |
| 14..... | 6.0 | 8.5 | 3.0 | 6.4 | 6.8 | 6.6 | 29 | 119 | 238 | 57 | 17 | 25 |
| 15..... | 6.8 | 14 | 3.8 | 7.0 | 6.1 | 7.6 | 31 | 127 | 257 | 55 | 17 | 24 |
| 16..... | 5.4 | 10 | 3.7 | 7.4 | 5.2 | 9.0 | 36 | 155 | 221 | 66 | 16 | 21 |
| 17..... | 6.2 | 8.2 | 3.5 | 6.8 | 4.6 | 10 | 30 | 187 | 229 | 74 | 16 | 19 |
| 18..... | 5.6 | 7.3 | 3.6 | 6.4 | 5.1 | 9.0 | 30 | 173 | 208 | 109 | 14 | 17 |
| 19..... | 5.0 | 6.6 | 2.5 | 6.0 | 4.6 | 11 | 36 | 139 | 204 | 119 | 14 | 19 |
| 20..... | 5.2 | 8.8 | 2.1 | 7.2 | 4.2 | 9.2 | 44 | 139 | 191 | 90 | 14 | 32 |
| 21..... | 4.7 | 7.0 | 2.7 | 7.6 | 5.4 | 10 | 48 | 162 | 212 | 74 | 17 | 30 |
| 22..... | 4.9 | 11 | 3.9 | 7.8 | 4.7 | 11 | 47 | 145 | 187 | 65 | 25 | 33 |
| 23..... | 6.8 | 10 | 3.4 | 8.0 | 5.0 | 20 | 44 | 148 | 173 | 57 | 15 | 27 |
| 24..... | 5.6 | 8.8 | 3.0 | 6.9 | 5.2 | 22 | 52 | 136 | 155 | 52 | 17 | 30 |
| 25..... | 3.8 | 8.8 | 2.6 | 7.2 | 4.7 | 22 | 47 | 145 | 145 | 48 | 23 | 29 |
| 26..... | 3.0 | 4.7 | 2.8 | 7.5 | 4.6 | 23 | 67 | 173 | 139 | 44 | 25 | 31 |
| 27..... | 3.0 | 2.6 | 3.1 | 7.9 | 7.5 | 24 | 78 | 216 | 158 | 57 | 26 | 38 |
| 28..... | 1.2 | 3.1 | 3.3 | 6.9 | 9.8 | 24 | 70 | 195 | 195 | 71 | 25 | 30 |
| 29..... | 4.6 | 3.7 | 3.9 | 7.7 | 11 | 20 | 52 | 229 | 191 | 48 | 24 | 42 |
| 30..... | 3.3 | 3.4 | 5.0 | 8.6 | ..... | 18 | 46 | 238 | 176 | 41 | 25 | 45 |
| 31..... | 8.8 | ..... | 6.6 | 9.4 | ..... | 36 | ..... | 257 | ..... | 38 | 22 | ..... |
| Total | 175.9 | 200.4 | 109.6 | 210.3 | 184.9 | 398.3 | 1097 | 4347 | 6000 | 2488 | 640 | 791 |
| Mean. | 5.67 | 6.68 | 3.54 | 6.78 | 6.38 | 12.8 | 36.6 | 140 | 200 | 80.3 | 20.6 | 26.4 |
| Max. | 9.1 | 15 | 6.6 | 9.4 | 11 | 36 | 78 | 257 | 266 | 139 | 30 | 46 |
| Min. | 1.2 | 2.0 | 1.9 | 3.6 | 4.2 | 6.6 | 20 | 51 | 139 | 38 | 14 | 13 |
| Acre-ft. | 349 | 397 | 217 | 417 | 367 | 790 | 2180 | 8620 | 11900 | 4930 | 1270 | 1570 |

Total run-off for water year 1939-40=33,010 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Middle Boulder Creek at Nederland, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|------|-------|------|------|------|-------|
| 1..... | 21 | 12 | 8.3 | 6.4 | 5.0 | 4.3 | 12 | 132 | 258 | 94 | 43 | 16 |
| 2..... | 22 | 12 | 8.3 | 6.2 | 4.6 | 4.3 | 12 | 165 | 226 | 96 | 41 | 14 |
| 3..... | 24 | 9.2 | 9.4 | 6.0 | 4.0 | 4.3 | 16 | 163 | 208 | 94 | 36 | 12 |
| 4..... | 22 | 13 | 8.5 | 5.8 | 4.0 | 4.3 | 20 | 145 | 224 | 90 | 32 | 12 |
| 5..... | 21 | 13 | 8.5 | 6.0 | 4.6 | 4.3 | 23 | 174 | 249 | 85 | 30 | 12 |
| 6..... | 21 | 12 | 8.5 | 6.2 | 4.5 | 4.3 | 21 | 156 | 230 | 82 | 29 | 13 |
| 7..... | 25 | 12 | 8.3 | 6.2 | 4.3 | 4.5 | 19 | 113 | 191 | 81 | 32 | 16 |
| 8..... | 26 | 14 | 8.7 | 6.2 | 3.6 | 4.6 | 18 | 104 | 159 | 84 | 31 | 18 |
| 9..... | 24 | 14 | 9.0 | 6.2 | 2.8 | 5.0 | 18 | 120 | 156 | 84 | 27 | 14 |
| 10..... | 23 | 13 | 9.2 | 6.2 | 2.5 | 5.5 | 17 | 134 | 156 | 84 | 24 | 13 |
| 11..... | 21 | 13 | 9.4 | 6.2 | *2.4 | 5.2 | 16 | 112 | 148 | 79 | 23 | 14 |
| 12..... | 20 | 12 | 9.6 | 6.2 | *3.6 | 5.0 | 18 | 101 | 161 | 76 | 22 | 13 |
| 13..... | 18 | 11 | 9.6 | 6.0 | *4.3 | 5.7 | 20 | 109 | 179 | 75 | 22 | 14 |
| 14..... | 18 | 12 | 9.0 | 6.0 | *4.3 | 5.5 | 22 | 115 | 195 | 70 | 21 | 16 |
| 15..... | 28 | 11 | 8.7 | 5.8 | *4.3 | 5.7 | 20 | 142 | 204 | 68 | 20 | 13 |
| 16..... | 28 | 11 | 8.5 | 5.8 | *4.3 | 4.6 | 19 | 145 | 181 | 63 | 19 | 12 |
| 17..... | 27 | 11 | 8.5 | 5.8 | *4.3 | 4.5 | 20 | 138 | 168 | 59 | 19 | 11 |
| 18..... | 26 | 11 | 8.3 | 5.8 | *4.3 | 5.2 | 21 | 172 | 142 | 57 | 17 | 11 |
| 19..... | 27 | 11 | 7.5 | 5.5 | *4.3 | 6.4 | 19 | 211 | 115 | 53 | 17 | 10 |
| 20..... | 25 | 11 | 7.9 | 5.5 | *3.6 | 7.9 | 19 | 216 | 102 | 49 | 18 | 9.6 |
| 21..... | 25 | 10 | 7.9 | 5.8 | *2.8 | 9.6 | 24 | 214 | 98 | 48 | 18 | 9.4 |
| 22..... | 24 | 9.6 | 7.9 | 6.2 | *3.6 | 12 | 35 | 232 | 85 | 44 | 16 | 9.4 |
| 23..... | 19 | 9.4 | 7.7 | 6.2 | *4.3 | 12 | 46 | 249 | 94 | 42 | 15 | 9.8 |
| 24..... | 19 | 7.0 | 7.9 | 6.0 | *4.3 | 12 | 44 | 232 | 106 | 40 | 16 | 13 |
| 25..... | 15 | 8.5 | 7.5 | 5.8 | *4.3 | 14 | 41 | 183 | 110 | 39 | 16 | 11 |
| 26..... | 14 | 8.3 | 7.5 | 5.5 | *4.3 | 16 | 46 | 148 | 107 | 43 | 16 | 11 |
| 27..... | 14 | 8.3 | 7.3 | 5.3 | *4.3 | 15 | 58 | 138 | 105 | 40 | 16 | 10 |
| 28..... | 13 | 8.1 | 7.1 | 5.5 | *3.6 | 13 | 81 | 159 | 109 | 41 | 18 | 9.6 |
| 29..... | 11 | 7.9 | 7.0 | 5.7 | .... | 12 | 85 | 218 | 107 | 43 | 17 | 13 |
| 30..... | 13 | 8.1 | 6.8 | 5.3 | .... | 12 | 102 | 253 | 101 | 43 | 18 | 10 |
| 31..... | 12 | .... | 6.1 | 5.2 | .... | 11 | .... | 272 | .... | 43 | 17 | .... |
| Total | 646 | 323.4 | 254.4 | 182.5 | 111.1 | 239.7 | 932 | 5165 | 4704 | 1989 | 706 | 369.8 |
| Mean. | 20.8 | 10.8 | 8.21 | 5.89 | 3.97 | 7.73 | 31.1 | 167 | 157 | 64.2 | 22.8 | 12.3 |
| Max. | 28 | 14 | 9.6 | 6.4 | 5.0 | 16 | 102 | 272 | 288 | 96 | 43 | 18 |
| Min. | 11 | 7.0 | 6.1 | 5.2 | 2.4 | 4.3 | 12 | 101 | 85 | 39 | 15 | 9.4 |
| Acre-ft. | 1280 | 641 | 505 | 362 | 220 | 475 | 1850 | 10240 | 9330 | 3950 | 1400 | 732 |

Total run-off for water year 1938-39=30,986 acre-feet.

*Estimated.

Discharge of Middle Boulder Creek at Nederland, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|------|-------|
| 1..... | 9.6 | 10 | 5.2 | 2.8 | 5.3 | 4.8 | 12 | 36 | 259 | 131 | 43 | 28 |
| 2..... | 9 | 11 | 6 | 3.1 | 5 | 5.2 | 12 | 46 | 270 | 183 | 39 | 26 |
| 3..... | 8.7 | 9.6 | 5.2 | 3.4 | 4.8 | 5 | 10 | 58 | 249 | 158 | 36 | 32 |
| 4..... | 9.6 | 9.6 | 5 | 3.6 | 4.2 | 4.2 | 9.2 | 70 | 232 | 131 | 35 | 38 |
| 5..... | 10 | 8.7 | 5.2 | 3.8 | 4.5 | 4.3 | 9 | 78 | 230 | 123 | 33 | 30 |
| 6..... | 12 | 9.6 | 5 | 3.8 | 4.8 | 4 | 10 | 85 | 209 | 132 | 32 | 27 |
| 7..... | 12 | 8.1 | 5 | 4 | 4.8 | 4.6 | 9.6 | 91 | 165 | 117 | 32 | 25 |
| 8..... | 13 | 8.3 | 5.5 | 4.8 | 5.3 | 4.6 | 9.2 | 82 | 147 | 106 | 32 | 27 |
| 9..... | 14 | 7.9 | 4.8 | 4 | 5.5 | 4.3 | 9.4 | 80 | 130 | 98 | 30 | 23 |
| 10..... | 12 | 6.6 | 5.3 | 3.8 | 5.5 | 4.3 | 9.2 | 105 | 130 | 95 | 27 | 34 |
| 11..... | 12 | 8.1 | 6 | 4.5 | 5.5 | 4.3 | 6.8 | 132 | 148 | 90 | 29 | 28 |
| 12..... | 12 | 7.9 | 4 | 4.3 | 5.3 | 4.6 | 10 | 141 | 156 | 86 | 26 | 24 |
| 13..... | 12 | 8.1 | 4.1 | 4.2 | 5.5 | 5.8 | 10 | 144 | 161 | 82 | 24 | 24 |
| 14..... | 11 | 18 | 4.2 | 8.1 | 5.7 | 5.7 | 14 | 115 | 208 | 74 | 24 | 26 |
| 15..... | 11 | 20 | 4.3 | 6.6 | 5.2 | 4.8 | 19 | 116 | 216 | 70 | 22 | 22 |
| 16..... | 11 | 20 | 4.5 | 4.8 | 5 | 5 | 19 | 128 | 202 | 77 | 23 | 21 |
| 17..... | 10 | 21 | 4.2 | 5.5 | 4.8 | 5.2 | 15 | 138 | 197 | 90 | 23 | 20 |
| 18..... | 9.6 | 19 | 3.7 | 5.8 | 4.8 | 6 | 15 | 123 | 177 | 109 | 22 | 20 |
| 19..... | 9.6 | 17 | 4.6 | 5.7 | 4.2 | 6.8 | 22 | 111 | 179 | 107 | 21 | 23 |
| 20..... | 8.5 | 18 | 3.4 | 5.7 | 4.6 | 5 | 32 | 104 | 201 | 89 | 22 | 20 |
| 21..... | 8.5 | 17 | 3.1 | 5.7 | 4.3 | 5.7 | 37 | 102 | 211 | 86 | 24 | 25 |
| 22..... | 9.2 | 14 | 3 | 5.7 | 4.3 | 6.6 | 35 | 88 | 197 | 76 | 20 | 31 |
| 23..... | 9 | 9.4 | 2.7 | 5.7 | 4.3 | 6.8 | 34 | 86 | 189 | 68 | 23 | 29 |
| 24..... | 8.5 | 7.3 | 2.8 | 5.7 | 4.2 | 7.7 | 39 | 86 | 170 | 63 | 24 | 31 |
| 25..... | 8.3 | 5.8 | 2.4 | 5.2 | 4.5 | 7.9 | 41 | 95 | 156 | 59 | 41 | 31 |
| 26..... | 8.5 | 6 | 3.8 | 5.5 | 4.2 | 8.5 | 45 | 117 | 150 | 57 | 45 | 37 |
| 27..... | 6.6 | 7.3 | 7.1 | 6.4 | 4 | 9.4 | 54 | 153 | 141 | 61 | 51 | 35 |
| 28..... | 7.9 | 6.2 | 3.7 | 5.8 | 4 | 10 | 48 | 156 | 148 | 61 | 43 | 32 |
| 29..... | 9.4 | 5.7 | 6.8 | 5.8 | 5.3 | 9.2 | 43 | 177 | 141 | 55 | 37 | 35 |
| 30..... | 8.7 | 5.2 | 2.3 | 5.7 | .... | 8.3 | 35 | 195 | 128 | 51 | 32 | 35 |
| 31..... | 11 | .... | 2.7 | 5.3 | .... | 9.2 | .... | 228 | .... | 47 | 30 | .... |
| Total | 312.2 | 330.4 | 135.6 | 154.8 | 139.4 | 187.8 | 673.4 | 3466 | 5497 | 2832 | 954 | 848 |
| Mean. | 10.1 | 11.0 | 4.37 | 4.99 | 4.81 | 6.06 | 22.4 | 112 | 183 | 91.4 | 30.8 | 28.3 |
| Max. | 14 | 21 | 7.1 | 8.1 | 5.7 | 10 | 54 | 228 | 270 | 183 | 51 | 38 |
| Min. | 6.6 | 5.2 | 2.3 | 2.8 | 4.0 | 4 | 6.8 | 36 | 128 | 47 | 21 | 20 |
| Acre-ft. | 619 | 655 | 269 | 307 | 276 | 372 | 1340 | 6870 | 10900 | 5620 | 1890 | 1680 |

Total run-off for water year 1939-40=30,800 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

THIRTIETH BIENNIAL REPORT

Discharge of Boulder Creek Near Orodell, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|--------|-------|------|-------|-------|-------|------|------|-------|
| 1..... | 67 | 50 | 50 | 13 | 40 | 37 | 50 | 117 | 370 | 153 | 74 | 36 |
| 2..... | 66 | 60 | 31 | 32 | 36 | 45 | 23 | 121 | 370 | 145 | 76 | 37 |
| 3..... | 70 | 49 | 17 | 42 | 43 | 51 | 27 | 121 | 345 | 135 | 78 | 31 |
| 4..... | 70 | 42 | 17 | 42 | 12 | 16 | 34 | 119 | 283 | 128 | 72 | 30 |
| 5..... | 67 | 31 | 45 | 51 | 12 | 18 | 56 | 125 | 278 | 121 | 69 | 28 |
| 6..... | 69 | 17 | 57 | 46 | 36 | 42 | 59 | 125 | 292 | 123 | 66 | 28 |
| 7..... | 73 | 55 | 52 | 12 | 37 | 38 | 43 | 108 | 244 | 121 | 69 | 31 |
| 8..... | 76 | 55 | 45 | 26 | 38 | 57 | 35 | 114 | 223 | 121 | 70 | 42 |
| 9..... | 67 | 46 | 38 | 31 | 35 | 46 | 33 | 121 | 204 | 117 | 66 | 40 |
| 10..... | 63 | 52 | 16 | 48 | 29 | 63 | 56 | 132 | 204 | 117 | 60 | 33 |
| 11..... | 60 | 34 | 17 | 44 | 9.2 | 55 | 56 | 150 | 192 | 123 | 56 | 31 |
| 12..... | 60 | 28 | 45 | 48 | 15 | 40 | 41 | 162 | 177 | 125 | 50 | 35 |
| 13..... | 57 | 20 | 48 | 41 | 37 | 48 | 51 | 153 | 180 | 128 | 45 | 36 |
| 14..... | 59 | 50 | 51 | 35 | 36 | 60 | 67 | 174 | 214 | 125 | 43 | 36 |
| 15..... | 60 | 63 | 56 | 12 | 35 | 41 | 56 | 183 | 239 | 125 | 38 | 34 |
| 16..... | 57 | 54 | 43 | 40 | 37 | 46 | 64 | 177 | 231 | 121 | 38 | 28 |
| 17..... | 59 | 57 | 16 | 43 | 49 | 44 | 52 | 177 | 256 | 117 | 40 | 29 |
| 18..... | 57 | 48 | 26 | 28 | 15 | 51 | 50 | 189 | 223 | 110 | 34 | 28 |
| 19..... | 60 | 20 | 46 | 28 | 17 | 48 | 74 | 227 | 198 | 102 | 29 | 23 |
| 20..... | 52 | 17 | 51 | 33 | 25 | 60 | 57 | 231 | 165 | 94 | 30 | 20 |
| 21..... | 51 | 55 | 44 | 8.6 | 43 | 60 | 59 | 239 | 150 | 84 | 29 | 20 |
| 22..... | 27 | 45 | 42 | 12 | 36 | 70 | 79 | 252 | 142 | 85 | 28 | 18 |
| 23..... | 23 | 42 | 49 | 40 | 50 | 66 | 85 | 265 | 135 | 84 | 28 | 16 |
| 24..... | 42 | 28 | 13 | 44 | 42 | 66 | 100 | 296 | 140 | 80 | 29 | 16 |
| 25..... | 52 | 43 | 10 | 45 | 14 | 54 | 104 | 311 | 148 | 78 | 36 | 15 |
| 26..... | 51 | 26 | 20 | 38 | 15 | 69 | 94 | 244 | 165 | 80 | 35 | 14 |
| 27..... | 55 | 25 | 56 | 42 | 29 | 62 | 102 | 198 | 171 | 89 | 34 | 13 |
| 28..... | 37 | 46 | 46 | 13 | 44 | 59 | 110 | 214 | 168 | 91 | 35 | 13 |
| 29..... | 22 | 51 | 45 | 12 | ..... | 48 | 119 | 261 | 156 | 85 | 37 | 15 |
| 30..... | 21 | 45 | 42 | 33 | ..... | 116 | 96 | 316 | 165 | 82 | 36 | 12 |
| 31..... | 43 | 30 | 30 | 40 | ..... | 64 | ..... | 345 | ..... | 78 | 36 | ..... |
| Total | 1693 | 1254 | 1164 | 1022.6 | 866.2 | 1631 | 1932 | 5967 | 6428 | 3367 | 1466 | 788 |
| Mean. | 54.6 | 41.8 | 37.5 | 33.0 | 30.9 | 52.6 | 64.4 | 192 | 214 | 109 | 47.3 | 26.3 |
| Max. | 76 | 63 | 57 | 51 | 50 | 116 | 119 | 345 | 370 | 153 | 78 | 42 |
| Min. | 21 | 17 | 10 | 8.6 | 9.2 | 16 | 23 | 108 | 135 | 78 | 28 | 12 |
| Acres-ft. | 3360 | 2490 | 2310 | 2030 | 1720 | 3240 | 3830 | 11840 | 12750 | 6680 | 2910 | 1560 |

Total run-off for water year 1938-39=54,720 acre-feet.

Discharge of Boulder Creek Near Orodell, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|-------|-------|------|------|-------|------|-------|------|-------|------|------|-------|
| 1..... | 9.2 | 28 | 15 | 12 | 16 | 12 | 34 | 60 | 345 | 210 | 82 | 50 |
| 2..... | 18 | 18 | 13 | 19 | 16 | 10 | 21 | 56 | 390 | 274 | 73 | 56 |
| 3..... | 19 | 6.8 | 14 | 15 | 11 | 12 | 23 | 66 | 413 | 274 | 70 | 49 |
| 4..... | 13 | 6.2 | 16 | 13 | 8 | 15 | 40 | 67 | 380 | 201 | 67 | 64 |
| 5..... | 15 | 13 | 17 | 7 | 14 | 13 | 38 | 64 | 340 | 218 | 57 | 59 |
| 6..... | 15 | 16 | 18 | 24 | 13 | 12 | 21 | 79 | 345 | 244 | 51 | 89 |
| 7..... | 13 | 23 | 18 | 6 | 17 | 14 | 21 | 94 | 306 | 204 | 56 | 93 |
| 8..... | 13 | 23 | 23 | 10 | 16 | 12 | 28 | 94 | 274 | 201 | 60 | 73 |
| 9..... | 17 | 20 | 13 | 11 | 10 | 12 | 26 | 104 | 218 | 186 | 57 | 62 |
| 10..... | 20 | 12 | 12 | 10 | 16 | 13 | 35 | 110 | 201 | 174 | 51 | 51 |
| 11..... | 18 | 8.6 | 16 | 9 | 7 | 17 | 15 | 130 | 204 | 162 | 57 | 33 |
| 12..... | 16 | 18 | 20 | 11 | 11 | 13 | 14 | 150 | 235 | 156 | 51 | 27 |
| 13..... | 15 | 20 | 21 | 6 | 16 | 15 | 15 | 159 | 207 | 153 | 52 | 26 |
| 14..... | 14 | 26 | 24 | 9 | 14 | 16 | 20 | 165 | 218 | 138 | 46 | 25 |
| 15..... | 9.2 | 19 | 16 | 13 | 14 | 14 | 21 | 173 | 270 | 130 | 42 | 19 |
| 16..... | 14 | 9.2 | 13 | 15 | 8 | 15 | 26 | 142 | 278 | 132 | 35 | 18 |
| 17..... | 16 | 6.2 | 16 | 16 | 9 | 15 | 23 | 159 | 274 | 135 | 34 | 21 |
| 18..... | 15 | 8.6 | 25 | 15 | 4 | 15 | 21 | 177 | 270 | 135 | 35 | 22 |
| 19..... | 18 | 3.2 | 20 | 12 | 11 | 18 | 34 | 159 | 283 | 150 | 38 | 18 |
| 20..... | 9.2 | 19 | 24 | 12 | 10 | 15 | 46 | 145 | 306 | 156 | 38 | 28 |
| 21..... | 6.8 | 15 | 27 | 8 | 12 | 23 | 56 | 153 | 320 | 150 | 46 | 37 |
| 22..... | 5.0 | 15 | 19 | 13 | 11 | 35 | 67 | 130 | 340 | 145 | 40 | 20 |
| 23..... | 8.6 | 12 | 20 | 14 | 12 | 22 | 54 | 128 | 301 | 148 | 37 | 30 |
| 24..... | 5.6 | 12 | 10 | 13 | 13 | 18 | 67 | 125 | 292 | 132 | 38 | 56 |
| 25..... | 4.3 | 9.2 | 10 | 8 | 5.6 | 34 | 72 | 114 | 274 | 119 | 42 | 36 |
| 26..... | 6.2 | 7.4 | 11 | 23 | 9.8 | 33 | 63 | 138 | 256 | 108 | 38 | 28 |
| 27..... | 5.6 | 8.6 | 13 | 21 | 11 | 45 | 78 | 180 | 248 | 106 | 43 | 19 |
| 28..... | 6.8 | 18 | 12 | 9 | 14 | 33 | 78 | 218 | 231 | 112 | 62 | 15 |
| 29..... | 9.2 | 20 | 9 | 12 | 15 | 28 | 72 | 231 | 252 | 104 | 74 | 23 |
| 30..... | 12 | 19 | 17 | 20 | ..... | 20 | 64 | 252 | 218 | 104 | 60 | 29 |
| 31..... | 20 | ..... | 7 | 18 | ..... | 18 | ..... | 296 | ..... | 94 | 56 | ..... |
| Total | 383.7 | 428 | 509 | 404 | 344.4 | 587 | 1193 | 4301 | 8489 | 4955 | 1588 | 1176 |
| Mean. | 12.4 | 14.3 | 16.4 | 13.0 | 11.9 | 18.9 | 39.8 | 139 | 283 | 160 | 51.2 | 39.2 |
| Max. | 20 | 28 | 27 | 24 | 17 | 45 | 78 | 296 | 413 | 274 | 82 | 93 |
| Min. | 4.3 | 3.2 | 7 | 6 | 4 | 10 | 14 | 56 | 201 | 94 | 34 | 15 |
| Acres-ft. | 761 | 849 | 1010 | 801 | 683 | 1160 | 2370 | 8530 | 16840 | 9830 | 3150 | 2330 |

Total run-off for water year 1939-40=48,310 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Boulder Creek at Mouth Near Longmont, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|--------|-------|------|------|-------|
| 1.... | 105 | 63 | 106 | .... | .... | .... | 90 | 303 | 34 | 5.0 | 1.7 | 1.8 |
| 2.... | 105 | 66 | 106 | .... | .... | .... | 94 | 326 | 62 | 6.0 | 1.7 | 1.7 |
| 3.... | 113 | 75 | 99 | .... | .... | .... | 98 | 290 | 48 | 4.4 | 0.9 | 0.8 |
| 4.... | 108 | 70 | 92 | .... | .... | .... | 103 | 193 | 38 | 5.0 | 0.7 | 0.7 |
| 5.... | 67 | 74 | 88 | .... | .... | .... | 103 | 124 | 36 | 4.4 | 1.3 | 0.7 |
| 6.... | 70 | 84 | 99 | .... | .... | .... | 108 | 102 | 17 | 2.4 | 1.1 | 1.1 |
| 7.... | 72 | 74 | 102 | .... | .... | .... | 121 | 89 | 15 | 3.3 | 1.7 | 1.1 |
| 8.... | 69 | 106 | 100 | .... | .... | .... | 117 | 72 | 18 | 6.0 | 2.2 | 1.5 |
| 9.... | 81 | 113 | 95 | .... | .... | .... | 105 | 80 | 14 | 6.0 | 2.2 | 1.8 |
| 10.... | 82 | 86 | 86 | .... | .... | .... | 102 | 63 | 17 | 6.0 | 1.8 | 1.5 |
| 11.... | 90 | 88 | 80 | .... | .... | .... | 111 | 54 | 18 | 1.8 | 1.8 | 0.8 |
| 12.... | 77 | 74 | 64 | .... | .... | .... | 108 | 54 | 15 | 1.5 | 2.2 | 0.8 |
| 13.... | 73 | 66 | 64 | .... | .... | .... | 103 | 64 | 14 | 1.5 | 1.8 | 0.9 |
| 14.... | 69 | 62 | 79 | .... | .... | .... | 102 | 63 | 5.0 | 1.5 | 1.7 | 0.8 |
| 15.... | 72 | 85 | 105 | .... | .... | .... | 119 | 51 | 1.1 | 2.0 | 1.7 | 1.7 |
| 16.... | 65 | 103 | 104 | .... | .... | .... | 124 | 31 | 1.0 | 1.8 | 1.5 | 1.7 |
| 17.... | 67 | 92 | 100 | .... | *105 | .... | 129 | 16 | 0.8 | 2.2 | 1.1 | 1.7 |
| 18.... | 81 | 99 | 99 | .... | .... | .... | 144 | 13 | 2.0 | 2.2 | 1.1 | 1.7 |
| 19.... | 88 | 93 | 98 | .... | .... | .... | 211 | 9.5 | 4.2 | 1.5 | 1.3 | 1.5 |
| 20.... | 90 | 77 | 96 | .... | .... | .... | 226 | 10 | 3.6 | 1.3 | 1.5 | 1.5 |
| 21.... | 82 | 66 | 95 | .... | .... | .... | 268 | 20 | 3.9 | 2.0 | 1.3 | 1.3 |
| 22.... | 80 | 88 | 93 | .... | .... | .... | 220 | 19 | 3.6 | 2.8 | 1.3 | 1.3 |
| 23.... | 79 | 100 | 93 | *53 | .... | .... | 277 | 14 | 1.5 | 2.0 | 1.3 | 1.7 |
| 24.... | 75 | 85 | 93 | .... | .... | .... | 316 | 17 | 2.6 | 2.0 | 1.1 | 1.5 |
| 25.... | 75 | 82 | 94 | .... | .... | .... | 269 | 25 | 12 | 1.5 | 1.1 | 1.3 |
| 26.... | 75 | 80 | 98 | .... | .... | .... | 239 | 31 | 6.6 | 1.3 | 1.3 | 0.9 |
| 27.... | 76 | 86 | 100 | .... | .... | .... | 236 | 7.7 | 3.6 | 1.5 | 1.3 | 1.1 |
| 28.... | 77 | 92 | 102 | .... | .... | .... | 261 | 10 | 3.9 | 1.3 | 1.5 | 1.3 |
| 29.... | 72 | 95 | 98 | .... | .... | .... | 294 | 25 | 4.7 | 1.7 | 1.7 | 1.7 |
| 30.... | 64 | 109 | 90 | .... | .... | .... | 298 | 29 | 5.0 | 1.3 | 1.8 | 0.4 |
| 31.... | 64 | .... | 88 | .... | .... | .... | .... | 31 | .... | 1.1 | 1.8 | .... |
| Total | 2463 | 2533 | 2907 | 2046 | 2016 | 2706 | 5026 | 2236.2 | 411.1 | 84.3 | 46.5 | 38.3 |
| Mean. | 79.5 | 84.4 | 93.8 | 66 | 72 | 90 | 168 | 79.1 | 13.7 | 2.72 | 1.50 | 1.28 |
| Max. | 113 | 113 | 106 | .... | .... | .... | 316 | 326 | 62 | 6.0 | 2.2 | 1.8 |
| Min. | 64 | 62 | 64 | .... | .... | .... | 90 | 7.7 | 0.8 | 1.1 | 0.7 | 0.4 |
| Acre-ft. | 4890 | 5020 | 5770 | 4060 | 4000 | 5530 | 9990 | 4440 | 815 | 167 | 92 | 76 |

Total run-off for water year 1938-39=44,850 acre-feet.

*Discharge measurement.

Discharge of Boulder Creek at Mouth Near Longmont, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1.... | 1.3 | 2.6 | 1.7 | 1.2 | 6.0 | 6.8 | 0.8 | 41 | 0.2 | 4.2 | 1.7 | 1.8 |
| 2.... | 0.9 | 2.6 | 1.7 | 1.2 | 6.0 | 6.6 | 0.9 | 22 | 0.5 | 6.0 | 1.1 | 0.9 |
| 3.... | 0.7 | 3.3 | 1.5 | 1.2 | 6.2 | 6.5 | 0.9 | 8.6 | 2.0 | 4.6 | 2.2 | 1.3 |
| 4.... | 0.9 | 3.3 | 1.5 | 1.1 | 6.2 | 6.6 | 0.7 | 4.4 | 8.6 | 5.8 | 1.5 | 2.0 |
| 5.... | 1.5 | 3.3 | 1.5 | 1.1 | 6.4 | 6.6 | 0.8 | 0.7 | 6.3 | 2.8 | 0.8 | 2.0 |
| 6.... | 0.8 | 2.8 | 1.5 | 1.0 | 6.2 | 6.8 | 1.3 | 0.5 | 0.8 | 2.4 | 0.9 | 2.0 |
| 7.... | 0.7 | 1.8 | 1.3 | 0.6 | 6.0 | 6.9 | 1.3 | 0.8 | 3.7 | 2.2 | 2.0 | 4.4 |
| 8.... | 0.6 | 1.1 | 1.5 | 0.6 | 6.0 | 7.4 | 0.8 | 2.4 | 2.8 | 2.2 | 1.5 | 3.6 |
| 9.... | 0.8 | 1.3 | 2.0 | 0.7 | 6.3 | 7.4 | 0.8 | 0.8 | 3.3 | 2.2 | 0.9 | 3.1 |
| 10.... | 0.8 | 3.1 | 2.0 | 1.0 | 7.0 | 7.1 | 1.5 | 0.2 | 2.0 | 2.6 | 1.1 | 6.8 |
| 11.... | 0.8 | 4.2 | 1.7 | 1.2 | 6.4 | 6.8 | 3.3 | 0.4 | 2.8 | 2.4 | 0.8 | 3.6 |
| 12.... | 0.5 | 4.2 | 1.7 | 1.2 | 6.2 | 5.8 | 6.0 | 0.8 | 1.5 | 2.2 | 0.8 | 1.8 |
| 13.... | 0.4 | 3.3 | 2.0 | 1.1 | 6.8 | 6.3 | 5.2 | 4.2 | 2.8 | 2.4 | 1.3 | 1.7 |
| 14.... | 0.6 | 3.6 | 1.8 | 1.0 | 6.5 | 5.0 | 1.1 | 3.3 | 1.7 | 2.2 | 1.1 | 1.5 |
| 15.... | 0.7 | 4.2 | 1.5 | 1.3 | 6.3 | 6.3 | 0.9 | 0.4 | 2.2 | 2.6 | 1.3 | 1.8 |
| 16.... | 1.3 | 3.3 | 1.3 | 1.6 | 6.1 | 6.0 | 1.5 | 0.4 | 1.0 | 3.9 | 1.1 | 1.5 |
| 17.... | 0.8 | 2.4 | 0.8 | 2.0 | 5.8 | 5.5 | 4.4 | 1.7 | 1.7 | 3.3 | 0.9 | 1.5 |
| 18.... | 1.1 | 2.6 | 0.9 | 1.9 | 6.0 | 5.2 | 2.0 | 1.7 | 3.1 | 1.8 | 0.7 | 1.5 |
| 19.... | 0.9 | 2.0 | 0.6 | 1.8 | 6.4 | 5.0 | 1.3 | 1.3 | 2.6 | 2.6 | 0.7 | 1.5 |
| 20.... | 0.6 | 2.0 | 0.6 | 1.5 | 6.6 | 5.2 | 1.3 | 1.3 | 3.1 | 1.8 | 1.3 | 2.2 |
| 21.... | 0.9 | 2.0 | 0.5 | 1.3 | 6.6 | 7.7 | 0.8 | 1.2 | 1.2 | 2.2 | 1.1 | 2.8 |
| 22.... | 1.8 | 1.8 | 0.4 | 1.2 | 6.5 | 7.9 | 2.0 | 3.6 | 2.0 | 2.2 | 0.9 | 5.2 |
| 23.... | 2.0 | 1.7 | 0.5 | 0.6 | 6.5 | 8.2 | 7.4 | 1.5 | 9.3 | 2.0 | 1.5 | 3.3 |
| 24.... | 1.8 | 1.7 | 0.5 | 1.5 | 6.6 | 7.9 | 5.5 | 3.6 | 8.2 | 1.5 | 1.3 | 3.6 |
| 25.... | 1.7 | 2.4 | 0.5 | 1.7 | 6.6 | 7.1 | 8.6 | 3.3 | 5.0 | 0.9 | 1.3 | 1.6 |
| 26.... | 2.0 | 1.5 | 0.4 | 1.5 | 6.8 | 6.6 | 4.7 | 1.7 | 3.9 | 1.5 | 1.3 | 9.3 |
| 27.... | 2.0 | 1.8 | 0.3 | 6 | 6.8 | 7.4 | 4.6 | 1.8 | 5.0 | 1.8 | 2.2 | 7.7 |
| 28.... | 2.6 | 2.2 | 0.6 | 4 | 6.8 | 8.6 | 4.9 | 3.1 | 4.4 | 1.8 | 2.8 | 8.6 |
| 29.... | 2.6 | 2.2 | 0.8 | 5 | 7.0 | 7.9 | 4.6 | 1.1 | 4.4 | 1.1 | 2.8 | 1.5 |
| 30.... | 2.6 | 1.5 | 1.0 | 5.5 | .... | 7.9 | 4.7 | 4.4 | 2.8 | 1.1 | 4.2 | 4.2 |
| 31.... | 2.8 | .... | 1.4 | 6.2 | .... | 4.4 | .... | 0.3 | .... | 0.8 | 2.8 | .... |
| Total | 39.5 | 75.8 | 36.0 | 101.1 | 185.6 | 207.4 | 296.1 | 158.5 | 203.3 | 118.5 | 45.9 | 160.0 |
| Mean. | 1.27 | 2.53 | 1.16 | 3.26 | 6.40 | 6.69 | 9.87 | 5.11 | 6.78 | 3.82 | 1.48 | 5.33 |
| Max. | 2.8 | 4.2 | 2.0 | 1.7 | 7.0 | 8.6 | 4.9 | 4.1 | 3.7 | 4.6 | 4.2 | 4.2 |
| Min. | 0.4 | 1.1 | 0.3 | 0.6 | 5.8 | 4.4 | 0.7 | 0.2 | 0.2 | 0.8 | 0.7 | 0.9 |
| Acre-ft. | 78 | 150 | 71 | 201 | 368 | 411 | 587 | 314 | 403 | 235 | 91 | 317 |

Total run-off for water year 1939-40=3,230 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North St. Vrain Creek at Longmont Dam Near Lyons, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|------|-------|------|------|-------|-------|------|------|-------|
| 1.... | 47 | 29 | 17 | 16 | 12 | 11 | 30 | 142 | 323 | 133 | 96 | 41 |
| 2.... | 47 | 30 | 17 | 16 | 10 | 11 | 28 | 170 | 272 | 129 | 92 | 40 |
| 3.... | 45 | 29 | 16 | 15 | 9.9 | 11 | 40 | 186 | 244 | 129 | 84 | 25 |
| 4.... | 44 | 25 | 16 | 15 | 9.9 | 11 | 42 | 160 | 272 | 127 | 65 | 19 |
| 5.... | 44 | 30 | 17 | 13 | 11 | 11 | 52 | 158 | 315 | 119 | 56 | 17 |
| 6.... | 48 | 19 | 16 | 15 | 10 | 11 | 43 | 175 | 311 | 119 | 54 | 19 |
| 7.... | 52 | 14 | 16 | 14 | 12 | 10 | 42 | 151 | 266 | 119 | 65 | 24 |
| 8.... | 51 | 26 | 17 | 14 | 13 | 11 | 45 | 140 | 235 | 119 | 71 | 30 |
| 9.... | 45 | 27 | 18 | 15 | 13 | 11 | 52 | 131 | 206 | 113 | 58 | 50 |
| 10.... | 44 | 25 | 17 | 14 | 12 | 12 | 47 | 153 | 192 | 110 | 47 | 47 |
| 11.... | 41 | 22 | 16 | 14 | 11 | 15 | 42 | 146 | 186 | 111 | 44 | 46 |
| 12.... | 40 | 15 | 15 | 15 | 11 | 13 | 45 | 144 | 186 | 108 | 41 | 51 |
| 13.... | 37 | 6.4 | 16 | 14 | 12 | 14 | 59 | 142 | 212 | 103 | 44 | 46 |
| 14.... | 37 | 14 | 18 | 13 | 12 | 15 | 64 | 148 | 228 | 117 | 44 | 48 |
| 15.... | 37 | 24 | 20 | 13 | 12 | 11 | 64 | 162 | 235 | 115 | 41 | 43 |
| 16.... | 34 | 25 | 17 | 14 | 10 | 12 | 72 | 178 | 203 | 113 | 42 | 39 |
| 17.... | 34 | 24 | 16 | 14 | 11 | 11 | 62 | 168 | 203 | 106 | 55 | 30 |
| 18.... | 34 | 30 | 16 | 13 | 12 | 13 | 60 | 206 | 186 | 80 | 60 | 23 |
| 19.... | 37 | 19 | 16 | 13 | 12 | 16 | 63 | 238 | 158 | 76 | 59 | 19 |
| 20.... | 25 | 19 | 16 | 13 | 11 | 20 | 64 | 248 | 142 | 81 | 60 | 19 |
| 21.... | 35 | 16 | 16 | 14 | 11 | 23 | 65 | 231 | 155 | 82 | 56 | 18 |
| 22.... | 33 | 15 | 16 | 14 | 11 | 29 | 77 | 238 | 144 | 84 | 50 | 16 |
| 23.... | 30 | 13 | 14 | 13 | 11 | 31 | 92 | 248 | 142 | 81 | 47 | 19 |
| 24.... | 30 | 16 | 15 | 13 | 12 | 32 | 84 | 255 | 170 | 77 | 34 | 30 |
| 25.... | 30 | 17 | 15 | 13 | 11 | 32 | 81 | 215 | 170 | 94 | 27 | 27 |
| 26.... | 30 | 16 | 15 | 13 | 11 | 36 | 80 | 186 | 148 | 98 | 25 | 30 |
| 27.... | 30 | 20 | 14 | 13 | 10 | 30 | 81 | 172 | 144 | 106 | 29 | 30 |
| 28.... | 30 | 18 | 15 | 13 | 11 | 21 | 98 | 186 | 146 | 99 | 30 | 28 |
| 29.... | 30 | 18 | 15 | 13 | .... | 29 | 113 | 235 | 151 | 99 | 47 | 32 |
| 30.... | 30 | 18 | 14 | 12 | .... | 29 | 125 | 288 | 148 | 93 | 54 | 29 |
| 31.... | 29 | .... | 15 | 12 | .... | 25 | .... | 296 | .... | 110 | 47 | .... |
| Total | 1170 | 609.4 | 497 | 426 | 314.8 | 567 | 1912 | 5896 | 6093 | 3250 | 1624 | 935 |
| Mean. | 37.2 | 20.3 | 16.0 | 13.7 | 11.2 | 18.3 | 63.7 | 190 | 203 | 105 | 52.4 | 31.2 |
| Max. | 52 | 30 | 20 | 16 | 13 | 36 | 125 | 296 | 323 | 133 | 96 | 51 |
| Min. | 29 | 6.4 | 14 | 12 | 9.9 | 10 | 28 | 131 | 142 | 76 | 25 | 16 |
| Acre-ft. | 2320 | 1210 | 986 | 845 | 624 | 1120 | 3790 | 11690 | 12090 | 6450 | 3220 | 1850 |

Total run-off for water year 1938-39=46,195 acre-feet.

Discharge of North St. Vrain Creek at Longmont Dam Near Lyons, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|------|------|-------|------|------|-------|
| 1.... | 23 | 16 | 8.6 | 11 | 9.7 | 12 | 16 | 31 | 272 | 175 | 62 | 28 |
| 2.... | 20 | 16 | 9.3 | 11 | 9.5 | 11 | 18 | 32 | 266 | 197 | 55 | 33 |
| 3.... | 20 | 14 | 8.2 | 12 | 9.7 | 11 | 13 | 47 | 258 | 183 | 52 | 32 |
| 4.... | 23 | 15 | 7.7 | 12 | 9.7 | 10 | 12 | 65 | 231 | 165 | 53 | 36 |
| 5.... | 25 | 14 | 7.5 | 12 | 9.0 | 10 | 12 | 76 | 255 | 162 | 48 | 30 |
| 6.... | 29 | 14 | 8.2 | 11 | 9.3 | 11 | 14 | 87 | 244 | 175 | 50 | 28 |
| 7.... | 24 | 13 | 6.9 | 10 | 10 | 10 | 14 | 94 | 182 | 142 | 45 | 25 |
| 8.... | 23 | 13 | 7.7 | 10 | 9.5 | 10 | 11 | 94 | 168 | 135 | 43 | 24 |
| 9.... | 31 | 13 | 7.5 | 11 | 8.6 | 11 | 14 | 81 | 144 | 119 | 42 | 37 |
| 10.... | 27 | 11 | 7.5 | 11 | 9.7 | 11 | 14 | 101 | 131 | 111 | 38 | 54 |
| 11.... | 27 | 11 | 8.4 | 10 | 9.7 | 11 | 10 | 133 | 144 | 111 | 45 | 43 |
| 12.... | 23 | 11 | 6.2 | 11 | 9.0 | 9.5 | 10 | 158 | 162 | 111 | 39 | 37 |
| 13.... | 23 | 12 | 4.3 | 11 | 8.8 | 8.6 | 15 | 153 | 162 | 108 | 35 | 37 |
| 14.... | 21 | 12 | 8.8 | 9.9 | 9.9 | 12 | 16 | 115 | 192 | 98 | 33 | 41 |
| 15.... | 20 | 9.0 | 7.3 | 9.9 | 9.7 | 12 | 20 | 110 | 228 | 93 | 32 | 35 |
| 16.... | 19 | 7.5 | 8.6 | 10 | 9.3 | 12 | 26 | 125 | 235 | 92 | 40 | 30 |
| 17.... | 19 | 7.5 | 8.4 | 10 | 9.5 | 12 | 21 | 144 | 215 | 96 | 46 | 30 |
| 18.... | 19 | 6.7 | 8.6 | 9.5 | 9.7 | 11 | 20 | 137 | 189 | 228 | 46 | 32 |
| 19.... | 18 | 4.5 | 3.3 | 9.5 | 9.7 | 11 | 28 | 115 | 244 | 172 | 44 | 38 |
| 20.... | 17 | 5.6 | 5.1 | 9.5 | 9.5 | 12 | 37 | 119 | 255 | 142 | 45 | 48 |
| 21.... | 16 | 8.8 | 10 | 9.3 | 9.3 | 12 | 42 | 142 | 266 | 125 | 46 | 48 |
| 22.... | 14 | 9.9 | 8.2 | 9.3 | 9.9 | 14 | 36 | 125 | 258 | 127 | 50 | 55 |
| 23.... | 12 | 11 | 6.7 | 9.0 | 10 | 16 | 31 | 115 | 235 | 115 | 38 | 51 |
| 24.... | 13 | 8.6 | 6.6 | 8.8 | 9.9 | 16 | 36 | 119 | 209 | 106 | 35 | 58 |
| 25.... | 13 | 4.5 | 6.7 | 9.0 | 10 | 17 | 37 | 127 | 186 | 98 | 45 | 59 |
| 26.... | 13 | 3.4 | 7.9 | 9.0 | 10 | 18 | 48 | 148 | 175 | 92 | 52 | 64 |
| 27.... | 13 | 4.2 | 7.7 | 9.5 | 11 | 17 | 55 | 186 | 168 | 88 | 64 | 69 |
| 28.... | 10 | 11 | 8.8 | 9.5 | 13 | 17 | 50 | 180 | 178 | 87 | 58 | 58 |
| 29.... | 16 | 11 | 10 | 9.7 | 14 | 14 | 40 | 206 | 172 | 82 | 53 | 63 |
| 30.... | 12 | 8.4 | 9.3 | 9.9 | .... | 12 | 36 | 206 | 168 | 81 | 45 | 65 |
| 31.... | 17 | .... | 11 | 9.7 | .... | 14 | .... | 241 | .... | 71 | 42 | .... |
| Total | 600 | 306.6 | 241.0 | 314.0 | 286.6 | 385.1 | 752 | 3812 | 6193 | 3887 | 1421 | 1298 |
| Mean. | 19.4 | 10.2 | 7.77 | 10.1 | 9.88 | 12.4 | 25.1 | 123 | 206 | 125 | 45.8 | 43.3 |
| Max. | 31 | 16 | 11 | 12 | 14 | 18 | 55 | 241 | 272 | 228 | 64 | 69 |
| Min. | 10 | 3.4 | 3.3 | 8.8 | 8.6 | 8.6 | 10 | 31 | 131 | 71 | 32 | 24 |
| Acre-ft. | 1190 | 608 | 478 | 623 | 568 | 764 | 1490 | 7560 | 12280 | 7710 | 2820 | 2570 |

Total run-off for water year 1939-40=38,660 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of St. Vrain Creek at Lyons, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|-------|------|-------|------|------|-------|-------|------|------|-------|
| 1.... | 50 | 30 | 22 | 17 | 11 | 13 | 48 | 216 | 473 | 185 | 155 | 64 |
| 2.... | 49 | 33 | 9.5 | 17 | 9.5 | 13 | 45 | 260 | 417 | 178 | 122 | 58 |
| 3.... | 50 | 30 | 4.3 | 18 | 10 | 14 | 58 | 316 | 380 | 175 | 110 | 43 |
| 4.... | 45 | 30 | 5.8 | 16 | 8.5 | 14 | 45 | 246 | 422 | 181 | 94 | 32 |
| 5.... | 39 | 37 | 10 | 16 | 8.5 | 11 | 64 | 237 | 444 | 168 | 71 | 30 |
| 6.... | 44 | 25 | 6.1 | 16 | 10 | 12 | 52 | 260 | 439 | 161 | 67 | 29 |
| 7.... | 60 | 17 | 5.5 | 15 | 12 | 13 | 54 | 195 | 428 | 146 | 79 | 33 |
| 8.... | 55 | 29 | 9.5 | 15 | 13 | 14 | 54 | 152 | 385 | 142 | 110 | 40 |
| 9.... | 49 | 42 | 16 | 16 | 12 | 15 | 62 | 161 | 296 | 139 | 92 | 50 |
| 10.... | 52 | 37 | 19 | 15 | 11 | 17 | 62 | 212 | 268 | 127 | 79 | 56 |
| 11.... | 55 | 32 | 18 | 14 | 12 | 23 | 58 | 199 | 264 | 116 | 74 | 60 |
| 12.... | 55 | 24 | 15 | 16 | 12 | 18 | 61 | 203 | 264 | 136 | 69 | 67 |
| 13.... | 52 | 13 | 18 | 17 | 13 | 17 | 76 | 185 | 296 | 139 | 66 | 66 |
| 14.... | 50 | 14 | 22 | 13 | 14 | 21 | 96 | 199 | 355 | 139 | 54 | 67 |
| 15.... | 49 | 29 | 23 | 13 | 16 | 16 | 98 | 224 | 380 | 133 | 49 | 60 |
| 16.... | 48 | 33 | 22 | 14 | 15 | 17 | 113 | 255 | 335 | 133 | 54 | 52 |
| 17.... | 48 | 32 | 20 | 14 | 14 | 16 | 100 | 233 | 335 | 124 | 56 | 43 |
| 18.... | 48 | 23 | 20 | 16 | 14 | 15 | 98 | 278 | 296 | 108 | 64 | 34 |
| 19.... | 50 | 26 | 20 | 15 | 13 | 20 | 105 | 340 | 233 | 113 | 74 | 32 |
| 20.... | 48 | 24 | 20 | 15 | 13 | 24 | 105 | 370 | 195 | 119 | 78 | 30 |
| 21.... | 48 | 23 | 20 | 15 | 14 | 30 | 108 | 365 | 171 | 116 | 72 | 26 |
| 22.... | 47 | 17 | 18 | 14 | 14 | 26 | 130 | 385 | 149 | 116 | 67 | 26 |
| 23.... | 43 | 18 | 17 | 14 | 14 | 32 | 161 | 406 | 158 | 110 | 55 | 26 |
| 24.... | 43 | 24 | 17 | 14 | 14 | 34 | 139 | 433 | 178 | 110 | 47 | 36 |
| 25.... | 41 | 23 | 17 | 14 | 14 | 34 | 133 | 391 | 188 | 100 | 37 | 37 |
| 26.... | 36 | 22 | 15 | 13 | 13 | 41 | 127 | 325 | 192 | 94 | 33 | 38 |
| 27.... | 35 | 23 | 13 | 14 | 13 | 42 | 130 | 301 | 192 | 116 | 37 | 37 |
| 28.... | 33 | 22 | 16 | 15 | 14 | 25 | 152 | 325 | 199 | 102 | 36 | 34 |
| 29.... | 34 | 22 | 17 | 14 | .... | 28 | 178 | 396 | 216 | 96 | 43 | 38 |
| 30.... | 34 | 22 | 17 | 12 | .... | 42 | 188 | 433 | 212 | 127 | 72 | 39 |
| 31.... | 34 | .... | 17 | 13 | .... | 45 | .... | 462 | .... | 168 | 79 | .... |
| Total | 1424 | 776 | 489.7 | 460 | 351.5 | 702 | 2900 | 8963 | 8760 | 4117 | 2195 | 1285 |
| Mean. | 45.9 | 25.9 | 15.8 | 14.8 | 12.6 | 22.6 | 96.7 | 289 | 292 | 133 | 70.8 | 42.8 |
| Max.. | 60 | 42 | 23 | 18 | 16 | 45 | 188 | 462 | 473 | 185 | 155 | 67 |
| Min.. | 33 | 13 | 4.3 | 12 | 8.5 | 11 | 45 | 152 | 149 | 94 | 33 | 26 |
| Acre-ft. | 2820 | 1540 | 971 | 912 | 697 | 1390 | 5750 | 17780 | 17380 | 8170 | 4350 | 2550 |

Total run-off for water year 1938-39=64,310 acre-feet.

Discharge of St. Vrain Creek at Lyons, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|
| 1.... | 34 | 17 | 6.7 | 9.5 | 10 | 13 | 17 | 44 | 406 | 246 | 71 | 58 |
| 2.... | 28 | 17 | 8.5 | 10 | 10 | 6.7 | 19 | 36 | 412 | 325 | 66 | 48 |
| 3.... | 26 | 7.5 | 10 | 10 | 9.5 | 2.6 | 19 | 47 | 456 | 296 | 60 | 47 |
| 4.... | 27 | 3.6 | 9.0 | 10 | 9.5 | 2.6 | 16 | 64 | 417 | 250 | 61 | 54 |
| 5.... | 28 | 3.8 | 7.0 | 8.0 | 8.0 | 2.4 | 15 | 72 | 444 | 192 | 56 | 47 |
| 6.... | 29 | 3.6 | 6.7 | 5.2 | 8.0 | 2.6 | 18 | 81 | 401 | 229 | 54 | 44 |
| 7.... | 21 | 3.4 | 6.4 | 8.5 | 9.5 | 2.6 | 20 | 98 | 296 | 216 | 47 | 39 |
| 8.... | 25 | 3.4 | 5.8 | 9.0 | 9.5 | 2.4 | 18 | 105 | 250 | 208 | 44 | 36 |
| 9.... | 33 | 3.4 | 7.0 | 9.0 | 7.5 | 2.4 | 17 | 94 | 212 | 171 | 39 | 54 |
| 10.... | 32 | 2.6 | 6.7 | 10 | 8.5 | 2.4 | 18 | 110 | 188 | 158 | 54 | 62 |
| 11.... | 30 | 1.5 | 6.1 | 10 | 6.7 | 2.4 | 18 | 164 | 229 | 158 | 64 | 66 |
| 12.... | 27 | 1.8 | 5.8 | 10 | 5.5 | 2.2 | 12 | 224 | 268 | 152 | 60 | 58 |
| 13.... | 25 | 1.8 | 3.4 | 9.0 | 5.8 | 2.2 | 23 | 242 | 264 | 142 | 56 | 66 |
| 14.... | 23 | 2.6 | 4.3 | 8.5 | 6.4 | 2.2 | 23 | 171 | 311 | 124 | 55 | 61 |
| 15.... | 22 | 1.9 | 6.4 | 9.0 | 5.8 | 2.4 | 27 | 155 | 375 | 122 | 53 | 55 |
| 16.... | 19 | 1.5 | 5.8 | 9.5 | 4.9 | 2.8 | 36 | 175 | 385 | 110 | 61 | 48 |
| 17.... | 18 | 1.5 | 5.8 | 8.5 | 4.0 | 3.4 | 37 | 220 | 345 | 113 | 67 | 45 |
| 18.... | 18 | 2.6 | 6.4 | 7.5 | 4.9 | 3.0 | 33 | 229 | 287 | 306 | 61 | 47 |
| 19.... | 17 | 3.0 | 3.8 | 7.0 | 4.6 | 3.2 | 36 | 171 | 292 | 237 | 56 | 50 |
| 20.... | 17 | 2.0 | 3.0 | 8.5 | 3.4 | 7.5 | 44 | 175 | 325 | 188 | 49 | 74 |
| 21.... | 15 | 2.4 | 6.1 | 8.5 | 4.0 | 13 | 52 | 237 | 370 | 171 | 52 | 74 |
| 22.... | 14 | 4.6 | 7.0 | 9.0 | 3.8 | 14 | 49 | 195 | 422 | 171 | 56 | 81 |
| 23.... | 13 | 11.0 | 5.8 | 9.0 | 4.0 | 17 | 47 | 178 | 370 | 149 | 52 | 74 |
| 24.... | 12 | 9.0 | 4.9 | 7.5 | 5.2 | 19 | 47 | 188 | 335 | 133 | 43 | 81 |
| 25.... | 12 | 3.6 | 3.6 | 8.0 | 4.9 | 20 | 49 | 199 | 292 | 119 | 62 | 85 |
| 26.... | 11 | 2.8 | 3.8 | 8.5 | 4.6 | 20 | 61 | 250 | 273 | 124 | 71 | 83 |
| 27.... | 12 | 1.8 | 4.9 | 10 | 5.8 | 21 | 69 | 325 | 237 | 124 | 94 | 87 |
| 28.... | 12 | 3.4 | 5.8 | 8.5 | 9.5 | 21 | 61 | 296 | 255 | 122 | 87 | 89 |
| 29.... | 14 | 8.5 | 7.0 | 9.5 | 12 | 20 | 55 | 306 | 260 | 113 | 85 | 91 |
| 30.... | 11 | 7.0 | 9.5 | 11 | .... | 15 | 47 | 306 | 246 | 96 | 72 | 89 |
| 31.... | 17 | .... | 10 | 12 | .... | 13 | .... | 355 | .... | 81 | 60 | .... |
| Total | 642 | 139.6 | 193.0 | 278.2 | 195.8 | 264.0 | 1003 | 5512 | 9623 | 5346 | 1873 | 1896 |
| Mean. | 20.7 | 4.65 | 6.23 | 8.97 | 6.75 | 8.52 | 33.4 | 178 | 321 | 172 | 60.4 | 63.2 |
| Max.. | 34 | 17 | 10 | 12 | 12 | 21 | 69 | 355 | 456 | 325 | 94 | 94 |
| Min.. | 11 | 1.5 | 3 | 5.2 | 3.4 | 2.2 | 12 | 36 | 188 | 81 | 39 | 36 |
| Acre-ft. | 1270 | 277 | 383 | 552 | 388 | 524 | 1990 | 10930 | 19090 | 10600 | 3720 | 3760 |

Total run-off for water year 1939-40=53,480 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of St. Vrain Creek at Mouth Near Platteville, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|-------|-------|------|-------|-------|------|------|------|------|-------|
| 1.... | 346 | 139 | 188 | 185 | 160 | 210 | 198 | 505 | 248 | 162 | 181 | 76 |
| 2.... | 350 | 139 | 196 | 188 | 161 | 208 | 184 | 565 | 459 | 145 | 181 | 70 |
| 3.... | 350 | 156 | 179 | 192 | 163 | 207 | 164 | 488 | 360 | 149 | 164 | 65 |
| 4.... | 346 | 162 | 158 | 184 | 159 | 210 | 152 | 350 | 268 | 114 | 152 | 99 |
| 5.... | 200 | 162 | 147 | 186 | 154 | 214 | 156 | 205 | 257 | 116 | 98 | 105 |
| 6.... | 184 | 179 | 160 | 210 | 145 | 222 | 176 | 130 | 203 | 99 | 90 | 104 |
| 7.... | 174 | 222 | 164 | 193 | 142 | 232 | 225 | 123 | 139 | 85 | 109 | 96 |
| 8.... | 176 | 225 | 176 | 181 | 143 | 250 | 235 | 102 | 149 | 87 | 114 | 104 |
| 9.... | 198 | 191 | 174 | 198 | 147 | 262 | 205 | 104 | 132 | 86 | 105 | 104 |
| 10.... | 193 | 188 | 174 | 181 | 153 | 243 | 200 | 92 | 134 | 85 | 102 | 105 |
| 11.... | 208 | 172 | 160 | 186 | 161 | 353 | 203 | 90 | 160 | 85 | 98 | 110 |
| 12.... | 196 | 167 | 150 | 215 | 169 | 346 | 196 | 85 | 172 | 99 | 86 | 65 |
| 13.... | 181 | 143 | 145 | 215 | 161 | 238 | 205 | 119 | 141 | 109 | 84 | 54 |
| 14.... | 176 | 137 | 160 | 200 | 159 | 210 | 246 | 137 | 127 | 114 | 118 | 50 |
| 15.... | 176 | 154 | 196 | 201 | 160 | 193 | 326 | 127 | 118 | 125 | 112 | 41 |
| 16.... | 169 | 181 | 180 | 205 | 174 | 179 | 398 | 100 | 107 | 137 | 118 | 41 |
| 17.... | 164 | 188 | 190 | 203 | 215 | 181 | 371 | 86 | 94 | 136 | 119 | 46 |
| 18.... | 179 | 181 | 175 | 204 | 205 | 172 | 323 | 77 | 90 | 134 | 123 | 39 |
| 19.... | 193 | 174 | 170 | 205 | 198 | 167 | 346 | 62 | 86 | 134 | 121 | 34 |
| 20.... | 212 | 149 | 168 | 184 | 196 | 167 | 353 | 63 | 81 | 119 | 112 | 37 |
| 21.... | 193 | 132 | 165 | 196 | 195 | 169 | 329 | 81 | 90 | 109 | 98 | 37 |
| 22.... | 179 | 132 | 165 | 169 | 191 | 176 | 323 | 78 | 90 | 104 | 86 | 40 |
| 23.... | 172 | 124 | 161 | 162 | 191 | 188 | 387 | 63 | 86 | 112 | 85 | 41 |
| 24.... | 169 | 195 | 159 | 181 | 192 | 184 | 446 | 64 | 87 | 114 | 84 | 38 |
| 25.... | 162 | 130 | 157 | 203 | 194 | 184 | 418 | 102 | 141 | 110 | 82 | 42 |
| 26.... | 156 | 135 | 162 | 210 | 200 | 169 | 364 | 147 | 158 | 112 | 81 | 43 |
| 27.... | 162 | 148 | 168 | 208 | 205 | 208 | 346 | 121 | 128 | 107 | 80 | 40 |
| 28.... | 164 | 152 | 180 | 210 | 210 | 230 | 350 | 110 | 119 | 152 | 80 | 38 |
| 29.... | 158 | 154 | 195 | 181 | .... | 205 | 364 | 136 | 128 | 164 | 80 | 42 |
| 30.... | 147 | 179 | 182 | 162 | .... | 210 | 394 | 137 | 152 | 169 | 85 | 43 |
| 31.... | 143 | .... | 180 | 164 | .... | 262 | .... | 174 | .... | 172 | 80 | .... |
| Total | 6176 | 4800 | 5284 | 5962 | 4907 | 6649 | 8583 | 4823 | 4704 | 3745 | 3308 | 1849 |
| Mean. | 199 | 160 | 170 | 192 | 175 | 214 | 286 | 156 | 157 | 121 | 107 | 61.6 |
| Max. | 350 | 225 | 196 | 215 | 215 | 353 | 446 | 565 | 459 | 172 | 181 | 110 |
| Min. | 143 | 115 | 145 | 162 | 142 | 167 | 152 | 62 | 81 | 85 | 80 | 34 |
| Acre-ft. | 12250 | 9520 | 10480 | 11830 | 9720 | 13190 | 17020 | 9570 | 9330 | 7430 | 6560 | 3670 |

Total run-off for water year 1938-39=120,570 acre-feet.

Discharge of St. Vrain Creek at Mouth Near Platteville, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1.... | 48 | 58 | 54 | 43 | 57 | 76 | 49 | 98 | 54 | 130 | 57 | 33 |
| 2.... | 49 | 52 | 59 | 43 | 56 | 87 | 50 | 84 | 48 | 176 | 60 | 29 |
| 3.... | 43 | 53 | 59 | 42 | 58 | 84 | 50 | 77 | 68 | 625 | 57 | 30 |
| 4.... | 35 | 60 | 54 | 42 | 60 | 74 | 48 | 60 | 78 | 501 | 56 | 33 |
| 5.... | 33 | 59 | 53 | 40 | 60 | 73 | 46 | 54 | 78 | 248 | 59 | 33 |
| 6.... | 32 | 57 | 49 | 39 | 61 | 84 | 47 | 48 | 65 | 169 | 58 | 39 |
| 7.... | 34 | 57 | 45 | 39 | 61 | 90 | 53 | 37 | 118 | 160 | 53 | 33 |
| 8.... | 35 | 56 | 42 | 39 | 60 | 78 | 53 | 31 | 123 | 160 | 50 | 33 |
| 9.... | 43 | 54 | 46 | 40 | 62 | 72 | 48 | 28 | 94 | 162 | 46 | 40 |
| 10.... | 44 | 55 | 46 | 41 | 66 | 70 | 45 | 28 | 92 | 176 | 47 | 85 |
| 11.... | 49 | 61 | 44 | 40 | 65 | 69 | 47 | 28 | 74 | 160 | 46 | 112 |
| 12.... | 42 | 61 | 44 | 40 | 64 | 67 | 57 | 25 | 68 | 156 | 44 | 86 |
| 13.... | 47 | 59 | 45 | 39 | 63 | 67 | 61 | 25 | 72 | 147 | 38 | 68 |
| 14.... | 54 | 59 | 43 | 38 | 65 | 64 | 55 | 28 | 68 | 121 | 34 | 72 |
| 15.... | 55 | 57 | 43 | 39 | 62 | 62 | 47 | 30 | 67 | 110 | 32 | 68 |
| 16.... | 54 | 57 | 46 | 41 | 68 | 63 | 48 | 28 | 64 | 85 | 33 | 65 |
| 17.... | 58 | 57 | 46 | 38 | 62 | 61 | 59 | 31 | 104 | 77 | 33 | 60 |
| 18.... | 55 | 60 | 41 | 35 | 64 | 59 | 60 | 87 | 90 | 65 | 30 | 55 |
| 19.... | 51 | 61 | 39 | 34 | 64 | 58 | 53 | 87 | 55 | 73 | 30 | 54 |
| 20.... | 48 | 57 | 38 | 36 | 64 | 56 | 47 | 58 | 44 | 87 | 30 | 57 |
| 21.... | 49 | 57 | 41 | 35 | 64 | 55 | 43 | 82 | 40 | 90 | 29 | 60 |
| 22.... | 48 | 58 | 40 | 35 | 64 | 57 | 39 | 162 | 61 | 92 | 29 | 68 |
| 23.... | 47 | 54 | 48 | 35 | 68 | 56 | 37 | 87 | 87 | 72 | 29 | 93 |
| 24.... | 47 | 52 | 45 | 34 | 73 | 55 | 47 | 74 | 96 | 60 | 26 | 87 |
| 25.... | 49 | 53 | 40 | 35 | 81 | 54 | 49 | 65 | 85 | 54 | 28 | 85 |
| 26.... | 45 | 54 | 42 | 50 | 81 | 53 | 72 | 65 | 82 | 52 | 43 | 109 |
| 27.... | 46 | 52 | 36 | 54 | 81 | 52 | 100 | 68 | 96 | 54 | 51 | 100 |
| 28.... | 48 | 56 | 37 | 56 | 82 | 54 | 102 | 90 | 86 | 61 | 43 | 93 |
| 29.... | 53 | 57 | 39 | 59 | 77 | 54 | 105 | 99 | 92 | 80 | 35 | 116 |
| 30.... | 55 | 55 | 42 | 60 | .... | 58 | 98 | 110 | 94 | 64 | 32 | 174 |
| 31.... | 57 | .... | 44 | 58 | .... | 54 | .... | 78 | .... | 58 | 33 | .... |
| Total | 1453 | 1698 | 1390 | 1299 | 1913 | 2016 | 1715 | 1952 | 2343 | 4325 | 1271 | 2070 |
| Mean. | 46.9 | 56.6 | 44.8 | 41.9 | 66.0 | 65.0 | 57.2 | 63.0 | 78.1 | 140 | 41.0 | 69.0 |
| Max. | 58 | 61 | 59 | 60 | 82 | 90 | 105 | 162 | 123 | 625 | 60 | 174 |
| Min. | 32 | 52 | 36 | 34 | 56 | 52 | 37 | 25 | 40 | 52 | 26 | 29 |
| Acre-ft. | 2880 | 3370 | 2760 | 2580 | 3790 | 4000 | 3400 | 3870 | 4650 | 8580 | 2520 | 4110 |

Total run-off for water year 1939-40=46,510 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Left Hand Creek at Mouth Near Longmont, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|------|------|------|--------|------|-------|-------|-------|-------|
| 1.... | 20 | 5.9 | 8.7 | .... | .... | .... | 6.0 | 63 | 29 | 18 | 6.7 | 1.0 |
| 2.... | 20 | 6.3 | 9.0 | .... | .... | .... | 6.0 | 59 | 27 | 16 | 8.2 | 2.6 |
| 3.... | 21 | 6.3 | 8.5 | .... | .... | .... | 5.8 | 58 | 22 | 17 | 5.2 | 2.6 |
| 4.... | 20 | 6.3 | 8.7 | .... | .... | .... | 5.7 | 58 | 30 | 19 | 5.5 | 2.2 |
| 5.... | 19 | 7.9 | 8.2 | .... | .... | .... | 5.4 | 55 | 28 | 12 | 5.5 | 1.2 |
| 6.... | 17 | 7.9 | 8.5 | .... | .... | .... | 8.0 | 55 | 23 | 9.1 | 6.1 | 1.4 |
| 7.... | 18 | 6.6 | 8.2 | .... | .... | .... | 15 | 54 | 30 | 11 | 6.7 | 3.2 |
| 8.... | 19 | 7.6 | 9.9 | .... | .... | .... | 29 | 53 | 27 | 12 | 3.0 | 4.8 |
| 9.... | 17 | 7.9 | 10 | .... | .... | .... | 28 | 53 | 23 | 11 | 4.5 | 5.2 |
| 10.... | 14 | 7.6 | 11 | .... | .... | .... | 29 | 52 | 26 | 8.8 | 5.0 | 4.5 |
| 11.... | 11 | 7.4 | 11 | .... | .... | .... | 29 | 50 | 19 | 7.3 | 3.5 | 4.5 |
| 12.... | 9.3 | 7.4 | 10 | .... | .... | .... | 28 | 48 | 18 | 6.1 | 5.0 | 5.2 |
| 13.... | 8.2 | 6.6 | 11 | .... | .... | .... | 30 | 49 | 16 | 5.8 | 3.8 | 5.2 |
| 14.... | 8.2 | 6.1 | 12 | .... | .... | .... | 32 | 42 | 15 | 5.2 | 3.0 | 5.2 |
| 15.... | 9.0 | 7.4 | 16 | .... | .... | .... | 39 | 32 | 10 | 7.9 | 3.2 | 3.8 |
| 16.... | 8.5 | 7.6 | 16 | .... | .... | .... | 41 | 25 | 10 | 9.1 | 3.5 | 7.0 |
| 17.... | 8.2 | 7.1 | 15 | .... | *8.2 | .... | 40 | 22 | 12 | 11 | 2.4 | 7.9 |
| 18.... | 7.6 | 5.9 | 14 | .... | .... | .... | 41 | 22 | 13 | 10 | 2.4 | 4.8 |
| 19.... | 8.7 | 5.9 | 14 | .... | .... | .... | 44 | 20 | 11 | 5.5 | 3.0 | 1.0 |
| 20.... | 7.6 | 5.9 | 14 | *7.9 | .... | .... | 44 | 21 | 13 | 5.0 | 2.4 | 0.4 |
| 21.... | 6.6 | 5.4 | 14 | .... | .... | .... | 45 | 17 | 14 | 7.0 | 2.6 | 0.5 |
| 22.... | 7.1 | 6.1 | 14 | .... | .... | .... | 50 | 14 | 13 | 8.8 | 3.8 | 0.9 |
| 23.... | 6.6 | 6.8 | 13 | .... | .... | .... | 55 | 11 | 8.8 | 11 | 2.6 | 1.8 |
| 24.... | 6.3 | 7.0 | 12 | .... | .... | .... | 57 | 12 | 13 | 10 | 2.6 | 2.4 |
| 25.... | 6.1 | 8.0 | 11 | .... | .... | .... | 53 | 15 | 16 | 10 | 1.8 | 2.8 |
| 26.... | 6.3 | 8.0 | 10 | .... | .... | .... | 53 | 15 | 16 | 8.8 | 2.2 | 3.2 |
| 27.... | 6.1 | 7.5 | 9 | .... | .... | .... | 55 | 13 | 17 | 4.8 | 2.0 | 1.2 |
| 28.... | 6.1 | 9.0 | 10 | .... | .... | .... | 55 | 21 | 20 | 7.0 | 1.8 | 0.9 |
| 29.... | 6.3 | 8.6 | 11 | .... | .... | .... | 56 | 23 | 22 | 7.9 | 1.6 | 1.8 |
| 30.... | 6.1 | 5.6 | 12 | .... | .... | .... | 58 | 25 | 19 | 6.7 | 3.0 | 2.2 |
| 31.... | 5.9 | .... | 12 | .... | .... | .... | .... | 27 | .... | 5.5 | 1.0 | .... |
| Total | 340.8 | 209.6 | 351.7 | 279 | 196 | 186 | 1042.9 | 1084 | 560.8 | 294.3 | 113.6 | 91.4 |
| Mean. | 11.0 | 6.99 | 11.3 | 9.0 | 7.0 | 6.0 | 34.8 | 35.0 | 18.7 | 9.49 | 3.66 | 3.05 |
| Max.. | 21 | 9.0 | 16 | .... | .... | .... | 58 | 63 | 30 | 19 | 8.2 | 7.9 |
| Min.. | 5.9 | 5.4 | 8.2 | .... | .... | .... | 5.4 | 11 | 8.8 | 4.8 | 1.0 | 0.4 |
| Acre-ft. | 676 | 416 | 698 | 553 | 389 | 369 | 2070 | 2150 | 1110 | 584 | 225 | 181 |

Total run-off for water year 1938-39=9,421 acre-feet.

*Discharge measurement.

Discharge of Lefthand Creek at Mouth at Longmont, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|-------|------|------|------|-------|-------|-------|-------|------|-------|
| 1.... | 2.1 | 2.8 | 3.1 | .... | .... | 3.2 | 1.8 | 3.1 | 5.6 | 11 | 2.8 | 3.3 |
| 2.... | 1.1 | 2.5 | 3.1 | .... | .... | 3.2 | 2.1 | 2.0 | 7.6 | 16 | 2.4 | 3.0 |
| 3.... | 1.1 | 2.5 | 3.1 | .... | .... | 3.2 | 2.2 | 2.8 | 7.9 | 22 | 2.5 | 3.3 |
| 4.... | 2.0 | 2.5 | 3.1 | .... | .... | 3.2 | 2.2 | 5.0 | 5.2 | 18 | 3.1 | 2.8 |
| 5.... | 2.4 | 2.3 | 2.8 | .... | .... | 3.1 | 2.2 | 5.6 | 5.4 | 18 | 3.5 | 2.1 |
| 6.... | 2.3 | 2.0 | 2.8 | .... | .... | 3.1 | 2.2 | 3.6 | 6.8 | 18 | 2.8 | 2.4 |
| 7.... | 2.2 | 2.1 | 3.0 | .... | .... | 3.1 | 2.3 | 2.1 | 7.9 | 19 | 2.8 | 3.0 |
| 8.... | 2.3 | 2.4 | 3.1 | .... | .... | 3.1 | 2.2 | 3.9 | 6.3 | 18 | 3.6 | 2.5 |
| 9.... | 2.5 | 2.2 | 3.3 | .... | .... | 3.1 | 2.1 | 2.3 | 7.4 | 15 | 3.6 | 3.1 |
| 10.... | 2.7 | 2.4 | 3.3 | .... | .... | 3.0 | 2.1 | 1.8 | 8.7 | 10 | 4.5 | 7.6 |
| 11.... | 2.8 | 2.4 | 3.1 | .... | .... | 2.8 | 2.5 | 2.1 | 7.1 | 7.1 | 4.3 | 8.2 |
| 12.... | 2.8 | 2.4 | 3.1 | .... | .... | 3.1 | 3.1 | 1.7 | 11 | 8.7 | 3.0 | 5.2 |
| 13.... | 3.0 | 2.5 | 3.5 | .... | .... | 3.3 | 3.0 | 1.3 | 9.6 | 12 | 2.4 | 3.1 |
| 14.... | 3.1 | 2.2 | 3.5 | .... | .... | 3.1 | 2.8 | 1.3 | 9.9 | 15 | 2.0 | 3.9 |
| 15.... | 2.5 | 2.2 | 3.5 | .... | .... | 2.7 | 2.8 | 1.1 | 11 | 14 | 1.8 | 4.3 |
| 16.... | 2.7 | 2.7 | 3.6 | .... | .... | 2.7 | 5.2 | 1.8 | 7.6 | 14 | 1.6 | 3.3 |
| 17.... | 3.0 | 2.7 | 3.3 | .... | .... | 2.4 | 4.8 | 3.6 | 6.1 | 16 | 1.6 | 3.1 |
| 18.... | 3.5 | 2.5 | 3.1 | .... | .... | 2.3 | 3.8 | 3.0 | 5.0 | 16 | 1.4 | 3.1 |
| 19.... | 3.5 | 2.8 | 3.9 | .... | .... | 2.2 | 3.6 | 1.1 | 3.9 | 14 | 1.5 | 3.1 |
| 20.... | 2.7 | 4.3 | 4.8 | .... | 4.2 | 2.3 | 3.6 | 2.7 | 5.0 | 11 | 1.6 | 3.9 |
| 21.... | 2.5 | 2.2 | 3.5 | .... | .... | 2.1 | 2.8 | 3.1 | 7.1 | 7.4 | 1.3 | 9.0 |
| 22.... | 2.8 | 2.7 | 4.1 | .... | .... | 2.1 | 3.1 | 1.0 | 7.4 | 6.1 | 1.2 | 1.7 |
| 23.... | 3.5 | 2.3 | 3.8 | .... | .... | 2.4 | 3.8 | 7.9 | 7.1 | 3.6 | 2.0 | 1.0 |
| 24.... | 3.3 | 2.5 | 3.7 | .... | .... | 2.5 | 3.9 | 5.6 | 6.1 | 4.5 | 2.4 | 1.3 |
| 25.... | 4.3 | 2.8 | 3.6 | 2.1 | .... | 2.0 | 4.1 | 4.8 | 4.3 | 4.3 | 2.1 | 1.4 |
| 26.... | 3.9 | 2.8 | 3.6 | .... | .... | 2.0 | 5.9 | 7.1 | 4.5 | 3.0 | 2.2 | 1.0 |
| 27.... | 4.1 | 2.7 | 3.5 | .... | .... | 2.1 | 6.8 | 6.3 | 6.8 | 5.4 | 1.6 | 8.7 |
| 28.... | 4.3 | 2.5 | 3.4 | .... | .... | 2.0 | 6.8 | 4.5 | 8.2 | 4.3 | 1.6 | 1.1 |
| 29.... | 3.9 | 3.1 | 3.4 | .... | .... | 2.0 | 5.2 | 3.0 | 7.6 | 4.1 | 2.1 | 1.5 |
| 30.... | 3.5 | 3.0 | 3.4 | .... | .... | 2.0 | 3.9 | 2.5 | 7.4 | 4.5 | 2.3 | 1.2 |
| 31.... | 2.8 | .... | 3.4 | .... | .... | 2.0 | .... | 3.0 | .... | 3.1 | 2.7 | .... |
| Total | 89.2 | 75.0 | 105.5 | 77.8 | 96.0 | 81.4 | 102.9 | 117.6 | 211.5 | 343.1 | 74.3 | 194.0 |
| Mean. | 2.88 | 2.50 | 3.40 | 2.51 | 3.31 | 2.63 | 3.43 | 3.79 | 7.05 | 11.1 | 2.40 | 6.47 |
| Max.. | 4.3 | 3.1 | 4.8 | .... | .... | 3.3 | 6.8 | 11.0 | 11 | 22 | 4.5 | 17 |
| Min.. | 1.1 | 2.0 | 2.8 | .... | .... | 2.0 | 1.8 | 1.1 | 3.9 | 3.0 | 1.2 | 2.1 |
| Acre-ft. | 177 | 149 | 209 | 154 | 190 | 161 | 204 | 233 | 420 | 681 | 147 | 385 |

Total run-off for water year 1939-40=3,110 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Big Thompson River Near Estes Park, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1.... | 86 | 39 | ..... | ..... | ..... | ..... | 38 | 208 | 583 | 238 | 164 | 61 |
| 2.... | 88 | 39 | ..... | ..... | ..... | ..... | 36 | 252 | 474 | 225 | 150 | 59 |
| 3.... | 86 | 33 | ..... | ..... | ..... | ..... | 41 | 269 | 414 | 231 | 136 | 47 |
| 4.... | 80 | 35 | ..... | ..... | ..... | ..... | 44 | 225 | 470 | 245 | 125 | 41 |
| 5.... | 71 | 31 | ..... | *16 | ..... | ..... | 47 | 238 | 537 | 231 | 114 | 37 |
| 6.... | 70 | 24 | ..... | ..... | ..... | ..... | 45 | 272 | 532 | 231 | 109 | 37 |
| 7.... | 72 | 28 | ..... | ..... | ..... | ..... | 37 | 202 | 435 | 225 | 150 | 49 |
| 8.... | 73 | 38 | ..... | ..... | ..... | ..... | 37 | 179 | 371 | 218 | 147 | 63 |
| 9.... | 75 | 46 | ..... | ..... | ..... | ..... | 41 | 183 | 333 | 212 | 117 | 60 |
| 10.... | 71 | 44 | ..... | ..... | ..... | ..... | 41 | 222 | 312 | 202 | 98 | 57 |
| 11.... | 67 | 34 | ..... | ..... | ..... | ..... | 43 | 215 | 322 | 199 | 86 | 59 |
| 12.... | 63 | 30 | ..... | ..... | ..... | ..... | 43 | 205 | 322 | 189 | 82 | 61 |
| 13.... | 57 | 28 | ..... | ..... | ..... | ..... | 47 | 179 | 348 | 192 | 82 | 61 |
| 14.... | 59 | 32 | ..... | ..... | ..... | ..... | 45 | 208 | 378 | 183 | 75 | 61 |
| 15.... | 59 | 38 | ..... | ..... | ..... | ..... | 45 | 272 | 394 | 167 | 69 | 57 |
| 16.... | 59 | 42 | ..... | ..... | *16 | ..... | 45 | 322 | 352 | 164 | 65 | 53 |
| 17.... | 57 | 44 | ..... | ..... | ..... | ..... | 41 | 276 | 340 | 147 | 63 | 49 |
| 18.... | 55 | 37 | ..... | ..... | ..... | ..... | 37 | 326 | 308 | 133 | 61 | 43 |
| 19.... | 55 | 40 | ..... | ..... | ..... | ..... | 45 | 406 | 245 | 125 | 61 | 39 |
| 20.... | 53 | 42 | ..... | ..... | ..... | ..... | 43 | 414 | 212 | 117 | 61 | 37 |
| 21.... | 51 | 36 | ..... | ..... | ..... | ..... | 45 | 398 | 202 | 114 | 57 | 35 |
| 22.... | 49 | 30 | ..... | ..... | ..... | ..... | 61 | 414 | 186 | 109 | 51 | 31 |
| 23.... | 45 | 26 | ..... | *18 | ..... | ..... | 88 | 422 | 199 | 104 | 49 | 35 |
| 24.... | 45 | 27 | ..... | ..... | ..... | ..... | 86 | 410 | 218 | 101 | 49 | 55 |
| 25.... | 45 | 30 | ..... | ..... | ..... | ..... | 77 | 367 | 238 | 98 | 47 | 49 |
| 26.... | 45 | 28 | ..... | ..... | ..... | ..... | 77 | 304 | 238 | 106 | 49 | 47 |
| 27.... | 45 | 29 | ..... | ..... | ..... | ..... | 86 | 272 | 235 | 106 | 49 | 43 |
| 28.... | 43 | 30 | ..... | ..... | ..... | ..... | 120 | 308 | 238 | 104 | 51 | 39 |
| 29.... | 43 | 28 | ..... | ..... | ..... | ..... | 153 | 402 | 258 | 109 | 65 | 51 |
| 30.... | 43 | 32 | ..... | ..... | ..... | ..... | 170 | 514 | 255 | 117 | 67 | 45 |
| 31.... | 43 | ..... | ..... | ..... | ..... | ..... | ..... | 532 | ..... | 173 | 69 | ..... |
| Total | 1853 | 1020 | 806 | 527 | 420 | 744 | 1804 | 9416 | 9949 | 5115 | 2618 | 1461 |
| Mean... | 59.8 | 34 | 26 | 17 | 15 | 24 | 60.1 | 304 | 332 | 165 | 84.5 | 48.7 |
| Max.... | 88 | ..... | ..... | ..... | ..... | ..... | 170 | 532 | 583 | 245 | 164 | 63 |
| Min.... | 43 | ..... | ..... | ..... | ..... | ..... | 36 | 179 | 186 | 98 | 47 | 31 |
| Acre-ft. | 3680 | 2020 | 1600 | 1050 | 833 | 1480 | 3580 | 18680 | 19730 | 10150 | 5190 | 2900 |

Total run-off for water year 1938-39=70,893 acre-feet.

*Discharge measurement.

Discharge of Big Thompson River Near Estes Park, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|------|-------|------|-------|-------|-------|-------|------|-------|
| 1.... | 42 | 20 | 20 | 15 | 14 | 13 | 19 | 43 | 519 | 258 | 130 | 88 |
| 2.... | 39 | 20 | 20 | 16 | 13 | 12 | 20 | 45 | 528 | 359 | 120 | 77 |
| 3.... | 38 | 19 | 21 | 15 | 11 | 9 | 19 | 73 | 519 | 304 | 114 | 73 |
| 4.... | 39 | 18 | 21 | 13 | 12 | 10 | 18 | 109 | 456 | 265 | 104 | 82 |
| 5.... | 39 | 18 | 22 | 14 | 13 | 11 | 18 | 136 | 506 | 262 | 101 | 73 |
| 6.... | 39 | 19 | 19 | 13 | 12 | 12 | 18 | 147 | 452 | 258 | 95 | 65 |
| 7.... | 36 | 18 | 19 | 13 | 11 | 10 | 18 | 167 | 337 | 252 | 88 | 63 |
| 8.... | 36 | 17 | 20 | 12 | 11 | 13 | 17 | 164 | 315 | 235 | 86 | 63 |
| 9.... | 41 | 17 | 21 | 12 | 12 | 13 | 17 | 139 | 272 | 212 | 84 | 82 |
| 10.... | 35 | 17 | 21 | 11 | 11 | 12 | 17 | 167 | 231 | 202 | 77 | 112 |
| 11.... | 35 | 17 | 21 | 12 | 11 | 13 | 16 | 218 | 262 | 199 | 77 | 82 |
| 12.... | 32 | 15 | 18 | 13 | 11 | 9 | 18 | 286 | 319 | 186 | 75 | 79 |
| 13.... | 31 | 18 | 12 | 12 | 11 | 10 | 15 | 286 | 363 | 186 | 69 | 71 |
| 14.... | 31 | 17 | 15 | 11 | 11 | 12 | 17 | 208 | 439 | 183 | 69 | 71 |
| 15.... | 28 | 18 | 17 | 11 | 10 | 14 | 21 | 202 | 483 | 179 | 67 | 63 |
| 16.... | 27 | 20 | 19 | 11 | 10 | 15 | 31 | 283 | 444 | 186 | 65 | 57 |
| 17.... | 26 | 21 | 17 | 12 | 10 | 15 | 27 | 294 | 456 | 215 | 65 | 55 |
| 18.... | 26 | 22 | 13 | 13 | 10 | 14 | 28 | 235 | 398 | 374 | 59 | 57 |
| 19.... | 25 | 21 | 9 | 14 | 10 | 13 | 31 | 202 | 382 | 352 | 61 | 69 |
| 20.... | 19 | 22 | 6 | 11 | 10 | 14 | 42 | 218 | 422 | 269 | 63 | 75 |
| 21.... | 18 | 23 | 7 | 11 | 9 | 15 | 53 | 235 | 406 | 241 | 71 | 73 |
| 22.... | 18 | 23 | 8 | 11 | 9 | 16 | 57 | 183 | 386 | 258 | 84 | 86 |
| 23.... | 20 | 22 | 11 | 9 | 9 | 15 | 53 | 176 | 355 | 215 | 73 | 80 |
| 24.... | 18 | 21 | 9 | 10 | 10 | 15 | 55 | 129 | 333 | 192 | 82 | 75 |
| 25.... | 18 | 20 | 6 | 10 | 11 | 18 | 61 | 222 | 304 | 170 | 106 | 73 |
| 26.... | 18 | 18 | 8 | 11 | 12 | 20 | 69 | 272 | 304 | 164 | 144 | 75 |
| 27.... | 19 | 15 | 10 | 13 | 15 | 20 | 84 | 382 | 272 | 150 | 170 | 82 |
| 28.... | 18 | 21 | 11 | 11 | 16 | 21 | 86 | 352 | 286 | 156 | 147 | 71 |
| 29.... | 18 | 24 | 13 | 12 | 14 | 18 | 69 | 340 | 276 | 164 | 119 | 82 |
| 30.... | 20 | 21 | 14 | 13 | ..... | 15 | 55 | 390 | 255 | 166 | 106 | 104 |
| 31.... | 19 | ..... | 14 | 14 | ..... | 17 | ..... | 465 | ..... | 155 | 95 | ..... |
| Total | 868 | 582 | 462 | 379 | 329 | 434 | 1069 | 6828 | 11280 | 6967 | 2866 | 2258 |
| Mean... | 28.0 | 19.4 | 14.9 | 12.2 | 11.3 | 14.0 | 35.6 | 220 | 376 | 225 | 95.3 | 75.3 |
| Max.... | 42 | 24 | 22 | 16 | 16 | 21 | 86 | 465 | 528 | 374 | 170 | 112 |
| Min.... | 18 | 15 | 6 | 9 | 9 | 9 | 15 | 43 | 231 | 150 | 59 | 55 |
| Acre-ft. | 1720 | 1150 | 916 | 752 | 653 | 861 | 2120 | 13540 | 22370 | 13820 | 5680 | 4480 |

Total run-off for water year 1939-40=68,060 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Big Thompson River Below Power House Near Drake, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|-------|------|-------|
| 1.... | 156 | 68 | 50 | 31 | 20 | 20 | 52 | 228 | 720 | 256 | 158 | 76 |
| 2.... | 154 | 71 | 46 | 33 | 17 | 20 | 48 | 282 | 586 | 251 | 154 | 72 |
| 3.... | 154 | 71 | 41 | 32 | 15 | 20 | 56 | 315 | 470 | 248 | 142 | 67 |
| 4.... | 147 | 66 | 39 | 32 | 16 | 20 | 56 | 265 | 518 | 270 | 132 | 62 |
| 5.... | 145 | 74 | 43 | 29 | 15 | 19 | 66 | 265 | 598 | 259 | 121 | 59 |
| 6.... | 147 | 55 | 42 | 30 | 14 | 20 | 61 | 326 | 623 | 262 | 114 | 59 |
| 7.... | 149 | 42 | 38 | 30 | 16 | 20 | 61 | 279 | 507 | 256 | 144 | 64 |
| 8.... | 142 | 66 | 40 | 30 | 14 | 21 | 64 | 245 | 429 | 253 | 158 | 75 |
| 9.... | 138 | 80 | 41 | 29 | 13 | 22 | 63 | 231 | 372 | 245 | 132 | 81 |
| 10.... | 135 | 70 | 42 | 28 | 15 | 26 | 63 | 253 | 348 | 233 | 114 | 75 |
| 11.... | 130 | 62 | 37 | 28 | 14 | 26 | 60 | 256 | 348 | 226 | 105 | 68 |
| 12.... | 126 | 47 | 28 | 30 | 22 | 24 | 61 | 256 | 344 | 214 | 100 | 67 |
| 13.... | 121 | 28 | 28 | 28 | 16 | 26 | 69 | 228 | 376 | 208 | 97 | 69 |
| 14.... | 121 | 31 | 39 | 27 | 20 | 28 | 71 | 253 | 419 | 199 | 94 | 69 |
| 15.... | 118 | 57 | 48 | 24 | 22 | 26 | 74 | 295 | 475 | 186 | 88 | 67 |
| 16.... | 114 | 67 | 43 | 27 | 21 | 25 | 77 | 372 | 419 | 184 | 84 | 63 |
| 17.... | 114 | 75 | 43 | 21 | 20 | 23 | 65 | 322 | 400 | 174 | 83 | 60 |
| 18.... | 111 | 45 | 37 | 26 | 20 | 23 | 64 | 352 | 360 | 160 | 80 | 56 |
| 19.... | 114 | 57 | 36 | 21 | 19 | 26 | 72 | 444 | 288 | 149 | 80 | 53 |
| 20.... | 108 | 57 | 38 | 23 | 19 | 34 | 71 | 480 | 267 | 135 | 82 | 51 |
| 21.... | 104 | 52 | 37 | 22 | 18 | 39 | 70 | 465 | 243 | 132 | 76 | 48 |
| 22.... | 102 | 37 | 36 | 21 | 20 | 45 | 81 | 475 | 238 | 129 | 71 | 47 |
| 23.... | 92 | 31 | 35 | 24 | 18 | 47 | 102 | 507 | 230 | 123 | 68 | 45 |
| 24.... | 84 | 28 | 32 | 20 | 20 | 50 | 107 | 491 | 240 | 118 | 66 | 54 |
| 25.... | 80 | 41 | 31 | 23 | 20 | 52 | 102 | 444 | 242 | 116 | 66 | 57 |
| 26.... | 78 | 36 | 31 | 20 | 20 | 56 | 102 | 372 | 248 | 111 | 65 | 56 |
| 27.... | 72 | 46 | 30 | 21 | 22 | 55 | 102 | 322 | 251 | 100 | 65 | 55 |
| 28.... | 75 | 50 | 30 | 23 | 22 | 40 | 122 | 352 | 251 | 100 | 67 | 52 |
| 29.... | 72 | 46 | 31 | 20 | .... | 39 | 162 | 449 | 267 | 100 | 76 | 53 |
| 30.... | 75 | 50 | 29 | 21 | .... | 49 | 191 | 604 | 273 | 113 | 81 | 56 |
| 31.... | 71 | .... | 31 | 21 | .... | 49 | .... | 635 | .... | 158 | 87 | .... |
| Total | 3539 | 1606 | 1152 | 795 | 508 | 990 | 2415 | 11063 | 11350 | 5668 | 3050 | 1836 |
| Mean... | 114 | 53.5 | 37.2 | 25.6 | 18.1 | 31.9 | 80.5 | 357 | 378 | 183 | 98.4 | 61.2 |
| Max... | 156 | 80 | 50 | 33 | 22 | 56 | 191 | 635 | 720 | 270 | 158 | 81 |
| Min... | 65 | 28 | 28 | 20 | 13 | 19 | 48 | 228 | 230 | 100 | 65 | 45 |
| Acre-ft. | 7020 | 3190 | 2280 | 1580 | 1010 | 1960 | 4790 | 21940 | 22510 | 11240 | 6050 | 3640 |

Total run-off for water year 1938-39=87,210 acre-feet.

Discharge of Big Thompson River Below Power House Near Drake, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|------|------|------|------|-------|-------|-------|------|-------|
| 1.... | 48 | 30 | 20 | 17 | 18 | 20 | 25 | 56 | 598 | 276 | 151 | 94 |
| 2.... | 44 | 31 | 20 | 20 | 18 | 18 | 26 | 56 | 629 | 409 | 135 | 88 |
| 3.... | 46 | 29 | 22 | 18 | 14 | 16 | 26 | 68 | 648 | 376 | 127 | 84 |
| 4.... | 46 | 30 | 23 | 15 | 16 | 14 | 23 | 100 | 557 | 308 | 122 | 89 |
| 5.... | 50 | 29 | 20 | 19 | 18 | 16 | 24 | 124 | 617 | 288 | 118 | 84 |
| 6.... | 46 | 28 | 18 | 16 | 16 | 18 | 23 | 137 | 569 | 285 | 111 | 80 |
| 7.... | 46 | 29 | 20 | 16 | 16 | 16 | 24 | 154 | 424 | 273 | 108 | 76 |
| 8.... | 45 | 28 | 20 | 17 | 15 | 16 | 22 | 158 | 368 | 256 | 107 | 74 |
| 9.... | 49 | 27 | 25 | 16 | 16 | 20 | 20 | 149 | 311 | 231 | 101 | 94 |
| 10.... | 49 | 27 | 23 | 16 | 14 | 18 | 20 | 156 | 259 | 219 | 94 | 127 |
| 11.... | 43 | 23 | 18 | 14 | 16 | 20 | 21 | 195 | 267 | 219 | 95 | 102 |
| 12.... | 43 | 19 | 20 | 18 | 16 | 15 | 16 | 304 | 322 | 212 | 90 | 101 |
| 13.... | 38 | 25 | 9.8 | 14 | 14 | 13 | 28 | 322 | 364 | 203 | 87 | 92 |
| 14.... | 39 | 27 | 14 | 14 | 16 | 18 | 20 | 221 | 470 | 197 | 84 | 92 |
| 15.... | 35 | 23 | 16 | 15 | 14 | 18 | 25 | 191 | 551 | 193 | 81 | 87 |
| 16.... | 35 | 17 | 23 | 14 | 16 | 20 | 31 | 282 | 502 | 201 | 84 | 80 |
| 17.... | 35 | 18 | 17 | 14 | 13 | 23 | 34 | 322 | 507 | 206 | 83 | 75 |
| 18.... | 32 | 14 | 19 | 16 | 14 | 20 | 31 | 262 | 449 | 419 | 84 | 80 |
| 19.... | 32 | 12 | 8.2 | 20 | 15 | 18 | 31 | 214 | 424 | 409 | 84 | 83 |
| 20.... | 31 | 14 | 4.9 | 16 | 15 | 22 | 37 | 223 | 480 | 311 | 87 | 93 |
| 21.... | 29 | 18 | 6.4 | 14 | 15 | 23 | 54 | 240 | 475 | 199 | 93 | 90 |
| 22.... | 28 | 10 | 12 | 14 | 13 | 23 | 59 | 217 | 444 | 273 | 100 | 101 |
| 23.... | 30 | 29 | 14 | 14 | 14 | 23 | 56 | 212 | 404 | 228 | 100 | 102 |
| 24.... | 29 | 22 | 9.0 | 12 | 16 | 24 | 57 | 212 | 376 | 201 | 102 | 100 |
| 25.... | 28 | 15 | 7.8 | 13 | 16 | 24 | 67 | 233 | 333 | 184 | 122 | 95 |
| 26.... | 28 | 8.6 | 6.7 | 14 | 18 | 26 | 76 | 276 | 329 | 178 | 140 | 90 |
| 27.... | 27 | 7.0 | 11 | 16 | 20 | 26 | 81 | 414 | 295 | 164 | 160 | 93 |
| 28.... | 29 | 20 | 14 | 12 | 25 | 26 | 84 | 400 | 304 | 162 | 144 | 88 |
| 29.... | 26 | 26 | 16 | 16 | 25 | 25 | 78 | 380 | 304 | 178 | 124 | 98 |
| 30.... | 26 | 18 | 16 | 16 | .... | 23 | 64 | 424 | 276 | 170 | 110 | 114 |
| 31.... | 30 | .... | 16 | 18 | .... | 20 | .... | 523 | .... | 168 | 100 | .... |
| Total | 1136 | 663.6 | 489.8 | 484 | 472 | 622 | 1183 | 7225 | 12856 | 7596 | 3328 | 2747 |
| Mean... | 36.6 | 22.1 | 15.8 | 15.6 | 16.3 | 20.1 | 39.4 | 233 | 429 | 245 | 107 | 91.6 |
| Max... | 50 | 31 | 25 | 20 | 25 | 26 | 84 | 523 | 648 | 419 | 160 | 127 |
| Min... | 26 | 7 | 4.9 | 12 | 13 | 13 | 16 | 56 | 259 | 162 | 81 | 74 |
| Acre-ft. | 2250 | 1320 | 972 | 960 | 936 | 1230 | 2350 | 14330 | 25500 | 15070 | 6600 | 5450 |

Total run-off for water year 1939-40=76,970 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Big Thompson River at Mouth of Canon Near Drake, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|-------|------|-------|
| 1.... | 164 | 71 | 52 | 33 | 24 | 23 | 53 | 250 | 790 | 276 | 184 | 87 |
| 2.... | 160 | 74 | 49 | 35 | 22 | 23 | 50 | 307 | 635 | 265 | 173 | 78 |
| 3.... | 160 | 75 | 46 | 36 | 19 | 23 | 59 | 355 | 473 | 258 | 154 | 64 |
| 4.... | 152 | 68 | 41 | 35 | 20 | 23 | 59 | 298 | 521 | 284 | 140 | 63 |
| 5.... | 150 | 78 | 44 | 34 | 18 | 22 | 71 | 298 | 635 | 273 | 128 | 55 |
| 6.... | 148 | 60 | 43 | 34 | 16 | 23 | 67 | 371 | 680 | 268 | 118 | 55 |
| 7.... | 164 | 54 | 40 | 34 | 18 | 24 | 62 | 273 | 510 | 265 | 154 | 59 |
| 8.... | 154 | 76 | 42 | 34 | 16 | 25 | 67 | 245 | 417 | 263 | 182 | 85 |
| 9.... | 142 | 86 | 43 | 33 | 15 | 27 | 68 | 228 | 355 | 252 | 146 | 102 |
| 10.... | 136 | 80 | 44 | 32 | 16 | 30 | 73 | 260 | 340 | 240 | 124 | 90 |
| 11.... | 130 | 70 | 43 | 33 | 19 | 30 | 73 | 260 | 340 | 232 | 110 | 78 |
| 12.... | 124 | 58 | 33 | 35 | 25 | 28 | 75 | 260 | 336 | 222 | 94 | 80 |
| 13.... | 116 | 36 | 33 | 34 | 19 | 31 | 81 | 238 | 371 | 212 | 96 | 77 |
| 14.... | 114 | 45 | 47 | 33 | 25 | 33 | 87 | 260 | 413 | 203 | 98 | 80 |
| 15.... | 112 | 63 | 51 | 30 | 27 | 30 | 100 | 291 | 482 | 189 | 89 | 73 |
| 16.... | 106 | 73 | 47 | 34 | 25 | 30 | 104 | 359 | 435 | 187 | 85 | 60 |
| 17.... | 106 | 78 | 45 | 30 | 24 | 26 | 78 | 314 | 391 | 173 | 74 | 59 |
| 18.... | 106 | 56 | 41 | 34 | 23 | 27 | 77 | 332 | 359 | 160 | 70 | 48 |
| 19.... | 110 | 60 | 39 | 29 | 22 | 31 | 87 | 435 | 307 | 146 | 68 | 41 |
| 20.... | 104 | 58 | 41 | 32 | 22 | 30 | 85 | 477 | 276 | 134 | 77 | 36 |
| 21.... | 102 | 42 | 39 | 31 | 21 | 45 | 85 | 449 | 265 | 132 | 73 | 36 |
| 22.... | 100 | 40 | 38 | 28 | 23 | 50 | 100 | 463 | 255 | 130 | 59 | 36 |
| 23.... | 94 | 36 | 37 | 33 | 21 | 51 | 128 | 510 | 248 | 122 | 64 | 36 |
| 24.... | 89 | 32 | 36 | 29 | 23 | 53 | 134 | 482 | 263 | 112 | 67 | 53 |
| 25.... | 81 | 43 | 35 | 31 | 24 | 54 | 130 | 435 | 265 | 110 | 64 | 73 |
| 26.... | 81 | 40 | 34 | 26 | 24 | 60 | 130 | 359 | 268 | 112 | 60 | 67 |
| 27.... | 75 | 47 | 33 | 27 | 25 | 60 | 126 | 311 | 273 | 114 | 64 | 63 |
| 28.... | 75 | 53 | 31 | 30 | 25 | 46 | 146 | 329 | 271 | 116 | 70 | 58 |
| 29.... | 81 | 50 | 32 | 24 | .... | 44 | 191 | 422 | 284 | 108 | 85 | 63 |
| 30.... | 66 | 52 | 31 | 26 | .... | 45 | 218 | 616 | 298 | 128 | 96 | 75 |
| 31.... | 74 | .... | 32 | 26 | .... | 49 | .... | 666 | .... | 184 | 106 | .... |
| Total | 3576 | 1754 | 1242 | 975 | 601 | 1096 | 2864 | 11153 | 11756 | 5870 | 3172 | 1930 |
| Mean. | 115 | 58.5 | 40.1 | 31.5 | 21.5 | 35.4 | 95.5 | 360 | 392 | 189 | 102 | 64.3 |
| Max.. | 164 | 86 | 52 | 36 | 27 | 60 | 218 | 666 | 790 | 284 | 184 | 102 |
| Min.. | 66 | 32 | 31 | 24 | 15 | 22 | 50 | 228 | 248 | 108 | 59 | 36 |
| Acre-ft. | 7090 | 3480 | 2460 | 1930 | 1190 | 2170 | 5680 | 22120 | 23320 | 11640 | 6290 | 3830 |

Total run-off for water year 1938-39=91,200 acre-feet.

Discharge of Big Thompson River at Mouth of Canon Near Drake, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|-------|------|-------|
| 1.... | 63 | 40 | 21 | 20 | 17 | 18 | 28 | 68 | 641 | 288 | 171 | 102 |
| 2.... | 39 | 41 | 22 | 22 | 16 | 15 | 31 | 60 | 680 | 426 | 156 | 89 |
| 3.... | 42 | 36 | 23 | 21 | 14 | 14 | 34 | 77 | 699 | 400 | 148 | 87 |
| 4.... | 44 | 39 | 24 | 16 | 15 | 12 | 29 | 124 | 591 | 329 | 140 | 100 |
| 5.... | 57 | 38 | 23 | 17 | 17 | 11 | 31 | 158 | 692 | 301 | 132 | 92 |
| 6.... | 51 | 35 | 20 | 16 | 16 | 15 | 32 | 178 | 622 | 298 | 122 | 81 |
| 7.... | 46 | 38 | 21 | 16 | 15 | 11 | 33 | 196 | 449 | 288 | 120 | 78 |
| 8.... | 44 | 36 | 21 | 16 | 14 | 11 | 32 | 196 | 391 | 271 | 116 | 75 |
| 9.... | 59 | 36 | 24 | 15 | 15 | 17 | 23 | 187 | 332 | 242 | 104 | 102 |
| 10.... | 58 | 34 | 25 | 14 | 14 | 16 | 22 | 187 | 288 | 232 | 92 | 160 |
| 11.... | 50 | 27 | 20 | 13 | 15 | 18 | 24 | 230 | 291 | 235 | 87 | 152 |
| 12.... | 41 | 20 | 21 | 15 | 15 | 13 | 19 | 298 | 355 | 230 | 80 | 118 |
| 13.... | 41 | 25 | 12 | 14 | 14 | 12 | 29 | 314 | 413 | 218 | 80 | 104 |
| 14.... | 42 | 29 | 15 | 14 | 15 | 14 | 21 | 255 | 516 | 212 | 74 | 108 |
| 15.... | 38 | 26 | 19 | 14 | 14 | 14 | 27 | 228 | 622 | 208 | 68 | 96 |
| 16.... | 39 | 19 | 24 | 14 | 15 | 17 | 36 | 298 | 556 | 220 | 77 | 89 |
| 17.... | 39 | 19 | 19 | 14 | 13 | 19 | 45 | 344 | 562 | 222 | 78 | 83 |
| 18.... | 40 | 15 | 19 | 15 | 14 | 16 | 36 | 291 | 493 | 444 | 83 | 89 |
| 19.... | 28 | 13 | 10 | 18 | 14 | 16 | 33 | 242 | 458 | 431 | 78 | 92 |
| 20.... | 42 | 19 | 7 | 14 | 14 | 21 | 40 | 250 | 510 | 329 | 87 | 106 |
| 21.... | 37 | 20 | 8 | 14 | 13 | 22 | 54 | 276 | 499 | 260 | 100 | 110 |
| 22.... | 34 | 25 | 12 | 13 | 12 | 23 | 64 | 235 | 458 | 284 | 110 | 124 |
| 23.... | 37 | 31 | 15 | 12 | 13 | 24 | 64 | 215 | 413 | 242 | 114 | 120 |
| 24.... | 36 | 27 | 11 | 11 | 14 | 25 | 63 | 218 | 391 | 215 | 114 | 120 |
| 25.... | 33 | 22 | 9 | 12 | 16 | 26 | 71 | 242 | 347 | 196 | 144 | 116 |
| 26.... | 35 | 11 | 7 | 13 | 17 | 26 | 90 | 273 | 344 | 187 | 169 | 108 |
| 27.... | 32 | 9 | 7 | 15 | 19 | 31 | 100 | 400 | 314 | 187 | 180 | 110 |
| 28.... | 34 | 18 | 10 | 12 | 23 | 28 | 112 | 395 | 321 | 184 | 164 | 112 |
| 29.... | 31 | 27 | 13 | 13 | 22 | 29 | 104 | 375 | 321 | 200 | 144 | 122 |
| 30.... | 33 | 21 | 16 | 16 | .... | 25 | 80 | 417 | 294 | 191 | 126 | 146 |
| 31.... | 38 | .... | 16 | 17 | .... | 22 | .... | 521 | .... | 189 | 114 | .... |
| Total | 1283 | 796 | 514 | 466 | 445 | 581 | 1407 | 7748 | 13863 | 8159 | 3572 | 3191 |
| Mean. | 41.4 | 26.5 | 16.6 | 15.0 | 15.3 | 18.7 | 46.9 | 250 | 462 | 263 | 115 | 106 |
| Max.. | 63 | 41 | 25 | 22 | 23 | 31 | 112 | 521 | 699 | 444 | 180 | 160 |
| Min.. | 28 | 9 | 7 | 11 | 12 | 11 | 19 | 60 | 288 | 184 | 68 | 75 |
| Acre-ft. | 2540 | 1580 | 1020 | 924 | 883 | 1150 | 2790 | 15370 | 27500 | 16180 | 7080 | 6330 |

Total run-off for water year 1939-40=83,350 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Big Thompson River at Mouth Near La Salle, Colo., for Year Ending
Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|------|-------|-------|-------|
| 1..... | 65 | 78 | 75 | 51 | 45 | 46 | 55 | 15 | 30 | 20 | 3.8 | 2.5 |
| 2..... | 64 | 79 | 76 | 51 | 45 | 45 | 53 | 14 | 34 | 17 | 4.0 | 2.6 |
| 3..... | 63 | 80 | 76 | 50 | 44 | 44 | 52 | 14 | 34 | 15 | 3.8 | 2.3 |
| 4..... | 62 | 80 | 77 | 50 | 43 | 44 | 51 | 13 | 37 | 14 | 4.0 | 2.2 |
| 5..... | 62 | 81 | 75 | 50 | 41 | 45 | 51 | 8.8 | 35 | 10 | 4.3 | 2.3 |
| 6..... | 61 | 80 | 75 | 49 | 40 | 46 | 51 | 6.7 | 30 | 9.1 | 4.6 | 2.5 |
| 7..... | 62 | 80 | 75 | 48 | 40 | 48 | 51 | 7.9 | 23 | 8.5 | 4.3 | 2.6 |
| 8..... | 64 | 80 | 77 | 47 | 40 | 50 | 54 | 8.8 | 28 | 8.2 | 4.3 | 2.8 |
| 9..... | 69 | 80 | 78 | 49 | 41 | 51 | 54 | 4.6 | 29 | 8.5 | 4.3 | 2.5 |
| 10..... | 69 | 81 | 78 | 49 | 42 | 52 | 52 | 4.6 | 30 | 8.5 | 4.3 | 2.0 |
| 11..... | 68 | 81 | 78 | 49 | 42 | 52 | 52 | 4.6 | 27 | 10 | 4.6 | 1.6 |
| 12..... | 67 | 81 | 78 | 50 | 42 | 52 | 51 | 3.8 | 22 | 10 | 4.3 | 1.6 |
| 13..... | 67 | 79 | 76 | 50 | 42 | 56 | 51 | 4.6 | 16 | 8.8 | 4.0 | 1.9 |
| 14..... | 65 | 79 | 73 | 49 | 42 | 59 | 51 | 4.9 | 17 | 7.3 | 3.7 | 2.0 |
| 15..... | 64 | 77 | 73 | 48 | 42 | 61 | 52 | 4.6 | 18 | 7.3 | 3.7 | 2.0 |
| 16..... | 66 | 77 | 72 | 47 | 43 | 61 | 57 | 7.9 | 20 | 6.4 | 3.8 | 2.3 |
| 17..... | 68 | 78 | 71 | 46 | 44 | 62 | 52 | 11 | 21 | 6.1 | 3.8 | 2.3 |
| 18..... | 63 | 76 | 69 | 46 | 44 | 63 | 38 | 6.4 | 23 | 5.8 | 3.8 | 2.2 |
| 19..... | 64 | 76 | 68 | 45 | 44 | 62 | 34 | 4.6 | 25 | 6.4 | 3.5 | 1.9 |
| 20..... | 76 | 76 | 66 | 45 | 43 | 60 | 32 | 4.9 | 25 | 6.7 | 3.3 | 1.9 |
| 21..... | 75 | 75 | 66 | 45 | 43 | 59 | 30 | 5.2 | 22 | 5.8 | 3.0 | 1.9 |
| 22..... | 77 | 75 | 66 | 45 | 43 | 59 | 28 | 5.2 | 23 | 5.8 | 3.0 | 1.9 |
| 23..... | 77 | 74 | 64 | 45 | 44 | 59 | 28 | 3.5 | 23 | 6.1 | 3.2 | 1.9 |
| 24..... | 78 | 74 | 61 | 44 | 44 | 59 | 22 | 6.1 | 22 | 6.4 | 3.2 | 2.6 |
| 25..... | 78 | 73 | 59 | 44 | 44 | 57 | 20 | 14 | 20 | 5.2 | 3.0 | 2.6 |
| 26..... | 79 | 74 | 58 | 45 | 44 | 54 | 18 | 13 | 20 | 4.9 | 3.0 | 3.5 |
| 27..... | 79 | 73 | 57 | 45 | 45 | 54 | 18 | 12 | 22 | 5.5 | 2.6 | 3.5 |
| 28..... | 80 | 73 | 57 | 45 | 45 | 58 | 18 | 11 | 22 | 4.6 | 2.5 | 3.2 |
| 29..... | 81 | 73 | 56 | 45 | .... | 60 | 17 | 14 | 41 | 4.0 | 2.5 | 2.5 |
| 30..... | 79 | 74 | 54 | 45 | .... | 61 | 16 | 16 | 28 | 4.0 | 2.6 | 2.6 |
| 31..... | 79 | .... | 52 | 45 | .... | 59 | .... | 17 | .... | 3.7 | 2.6 | .... |
| Total | 2171 | 2317 | 2136 | 1462 | 1201 | 1704 | 1211 | 273.7 | 767 | 249.6 | 111.4 | 69.9 |
| Mean... | 11.8 | 17.5 | .... | .... | .... | .... | 110 | 183 | 105 | 4.02 | 1.37 | 6.40 |
| Max... | 81 | 81 | 78 | 51 | 45 | 63 | 57 | 17 | 41 | 20 | 4.6 | 3.5 |
| Min... | 61 | 73 | 52 | 44 | 40 | 44 | 16 | 3.8 | 16 | 3.7 | 2.5 | 1.6 |
| Acre-ft. | 4310 | 4600 | 4240 | 2900 | 2380 | 3380 | 2400 | 543 | 1520 | 495 | 221 | 139 |

Total run-off for water year 1938-39=27,128 acre-feet.

**Discharge of Big Thompson River at Mouth Near La Salle, Colorado, for Year Ending
Sept. 30, 1940.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|------|------|------|------|-------|------|-------|-------|------|-------|
| 1..... | 2.0 | 4.6 | 44 | 29 | 39 | 41 | 17 | 1.8 | 3.0 | 14 | 7.6 | 1.8 |
| 2..... | 1.8 | 3.2 | 41 | 28 | 40 | 41 | 6.7 | 2.5 | 3.3 | 26 | 6.7 | 1.8 |
| 3..... | 1.5 | 3.0 | 37 | 27 | 40 | 40 | 5.8 | 2.6 | 3.7 | 60 | 5.8 | 2.3 |
| 4..... | 1.1 | 4.0 | 34 | 27 | 40 | 44 | 5.8 | 2.5 | 3.5 | 52 | 5.2 | 2.6 |
| 5..... | 1.0 | 3.7 | 34 | 27 | 40 | 42 | 5.5 | 2.5 | 18 | 30 | 4.9 | 2.5 |
| 6..... | 1.1 | 3.0 | 32 | 27 | 40 | 43 | 5.2 | 2.5 | 16 | 32 | 3.8 | 2.8 |
| 7..... | 1.6 | 3.8 | 30 | 27 | 41 | 40 | 5.2 | 1.5 | 30 | 28 | 5.5 | 2.3 |
| 8..... | 1.9 | 3.8 | 30 | 27 | 41 | 38 | 4.3 | 1.0 | 20 | 24 | 4.0 | 1.6 |
| 9..... | 2.0 | 3.8 | 31 | 28 | 40 | 37 | 3.5 | 1.1 | 14 | 16 | 3.5 | 1.8 |
| 10..... | 2.0 | 2.6 | 31 | 29 | 41 | 37 | 3.2 | 1.0 | 14 | 14 | 3.5 | 3.8 |
| 11..... | 2.0 | 3.3 | 28 | 29 | 41 | 37 | 3.2 | 0.8 | 8.8 | 13 | 3.3 | 3.8 |
| 12..... | 2.0 | 3.5 | 26 | 28 | 40 | 37 | 3.3 | 0.6 | 6.4 | 10 | 3.2 | 2.5 |
| 13..... | 2.2 | 3.7 | 25 | 27 | 40 | 36 | 2.8 | 1.5 | 5.8 | 9.4 | 2.6 | 2.5 |
| 14..... | 2.3 | 3.8 | 24 | 27 | 40 | 35 | 2.6 | 1.4 | 8.2 | 8.8 | 2.5 | 4.0 |
| 15..... | 2.3 | 3.8 | 24 | 28 | 40 | 35 | 2.3 | 1.0 | 10 | 7.9 | 2.3 | 4.0 |
| 16..... | 2.3 | 3.8 | 26 | 29 | 40 | 37 | 2.3 | 1.3 | 11 | 8.2 | 2.3 | 2.2 |
| 17..... | 2.2 | 3.7 | 26 | 27 | 38 | 35 | 2.6 | 1.5 | 8.5 | 7.9 | 2.2 | 2.3 |
| 18..... | 2.3 | 3.7 | 29 | 25 | 38 | 35 | 3.0 | 1.6 | 9.1 | 8.8 | 2.2 | 2.3 |
| 19..... | 1.9 | 3.9 | 22 | 24 | 38 | 36 | 2.0 | 1.6 | 11 | 12 | 2.0 | 2.3 |
| 20..... | 1.8 | 4.0 | 22 | 25 | 38 | 35 | 1.9 | 2.2 | 8.8 | 16 | 2.0 | 2.6 |
| 21..... | 1.8 | 4.0 | 21 | 26 | 38 | 33 | 1.6 | 3.5 | 10 | 23 | 1.6 | 2.8 |
| 22..... | 1.6 | 4.2 | 22 | 25 | 37 | 32 | 1.5 | 3.5 | 9.7 | 24 | 1.9 | 6.1 |
| 23..... | 1.5 | 4.2 | 24 | 26 | 37 | 32 | 1.6 | 3.2 | 10 | 24 | 1.9 | 1.3 |
| 24..... | 1.5 | 4.2 | 26 | 25 | 38 | 31 | 1.9 | 3.0 | 11 | 25 | 1.6 | 1.9 |
| 25..... | 1.8 | 4.1 | 28 | 28 | 39 | 30 | 1.5 | 2.8 | 9.4 | 22 | 1.5 | 2.0 |
| 26..... | 1.5 | 4.3 | 27 | 34 | 39 | 30 | 1.5 | 2.6 | 12 | 18 | 1.5 | 9.7 |
| 27..... | 1.3 | 4.3 | 25 | 35 | 40 | 30 | 1.4 | 3.0 | 13 | 17 | 1.4 | 5.2 |
| 28..... | 1.1 | 4.6 | 26 | 35 | 41 | 31 | 1.5 | 3.0 | 12 | 17 | 1.4 | 4.3 |
| 29..... | 1.5 | 4.8 | 27 | 34 | 41 | 30 | 2.0 | 3.2 | 14 | 15 | 1.6 | 3.8 |
| 30..... | 3.6 | 4.6 | 28 | 35 | .... | 30 | 1.6 | 3.5 | 13 | 13 | 1.6 | 3.5 |
| 31..... | 1.5 | .... | 29 | 37 | .... | 30 | .... | 3.2 | .... | 11 | 1.6 | .... |
| Total | 115.8 | 878.1 | 872 | 885 | 1145 | 1100 | 104.3 | 67.0 | 327.2 | 607.0 | 92.7 | 139.2 |
| Mean... | 3.74 | 29.3 | 28.1 | 28.5 | 39.5 | 35.5 | 3.48 | 2.16 | 10.9 | 19.6 | 2.99 | 4.64 |
| Max... | 36 | 48 | 44 | 37 | 41 | 44 | 17 | 3.5 | 30 | 60 | 7.6 | 20 |
| Min... | 1.0 | 3.0 | 2.1 | 2.4 | 3.7 | 3.0 | 1.4 | 0.6 | 3.0 | 7.9 | 1.4 | 1.6 |
| Acre-ft. | 230 | 1740 | 1730 | 1760 | 2270 | 2180 | 207 | 133 | 649 | 1200 | 184 | 276 |

Total run-off for water year 1939-40=12,560 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Cache La Poudre River at Mouth of Canyon Near Fort Collins, Colo., for
Year Ending Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|--------|-------|-------|------|------|-------|--------|-------|-------|-------|-------|-------|
| 1.... | 162 | 7.2 | 10 | 20 | 15 | 15 | 7.9 | 107 | 2000 | 720 | 438 | 492 |
| 2.... | 181 | 7.2 | 7.2 | 20 | 13 | 15 | 7.2 | 120 | 1780 | 680 | 432 | 384 |
| 3.... | 169 | 6.5 | 5.8 | 20 | 14 | 15 | 7.9 | 253 | 1320 | 641 | 389 | 368 |
| 4.... | 153 | 5.8 | 5.5 | 19 | 13 | 15 | 9.3 | 313 | 1630 | 610 | 374 | 352 |
| 5.... | 144 | 5.8 | 7.0 | 19 | 12 | 14 | 12 | 389 | 2150 | 564 | 347 | 358 |
| 6.... | 136 | 5.1 | 5.5 | 18 | 14 | 14 | 11 | 485 | 2180 | 557 | 332 | 368 |
| 7.... | 142 | 4.0 | 5.0 | 17 | 15 | 14 | 11 | 886 | 1900 | 610 | 352 | 389 |
| 8.... | 150 | 4.0 | 5.5 | 17 | 16 | 16 | 11 | 842 | 1690 | 595 | 308 | 426 |
| 9.... | 156 | 4.1 | 8.0 | 18 | 15 | 17 | 10 | 913 | 1460 | 542 | 230 | 438 |
| 10.... | 150 | 3.7 | 15 | 17 | 14 | 16 | 10 | 1030 | 1280 | 626 | 191 | 384 |
| 11.... | 139 | 3.7 | 20 | 16 | 16 | 15 | 11 | 985 | 1250 | 595 | 178 | 384 |
| 12.... | 130 | 3.8 | 21 | 17 | 17 | 14 | 12 | 895 | 1120 | 534 | 162 | 298 |
| 13.... | 133 | 4.0 | 24 | 18 | 17 | 13 | 12 | 834 | 1260 | 506 | 212 | 175 |
| 14.... | 130 | 6.4 | 25 | 18 | 18 | 11 | 11 | 922 | 1460 | 406 | 226 | 130 |
| 15.... | 125 | 6.3 | 25 | 17 | 18 | 10 | 12 | 1010 | 1430 | 438 | 249 | 104 |
| 16.... | 122 | 6.5 | 24 | 18 | 17 | 8.5 | 11 | 1160 | 1350 | 438 | 258 | 90 |
| 17.... | 122 | 9.3 | 24 | 19 | 16 | 7.5 | 10 | 1010 | 1270 | 426 | 242 | 83 |
| 18.... | 125 | 15 | 23 | 20 | 16 | 7.2 | 104 | 1130 | 1110 | 374 | 238 | 76 |
| 19.... | 125 | 15 | 22 | 19 | 15 | 7.0 | 166 | 1400 | 809 | 332 | 242 | 74 |
| 20.... | 117 | 15 | 22 | 19 | 15 | 6.8 | 166 | 1690 | 712 | 322 | 253 | 70 |
| 21.... | 112 | 15 | 22 | 19 | 15 | 6.5 | 162 | 1580 | 688 | 289 | 245 | 68 |
| 22.... | 112 | 10 | 22 | 18 | 15 | 7.2 | 162 | 1430 | 834 | 266 | 234 | 64 |
| 23.... | 104 | 7.0 | 22 | 18 | 15 | 7.2 | 184 | 1790 | 825 | 249 | 234 | 62 |
| 24.... | 36 | 5.8 | 21 | 18 | 16 | 6.5 | 198 | 1810 | 825 | 308 | 238 | 64 |
| 25.... | 10 | 11 | 20 | 18 | 16 | 6.5 | 201 | 1660 | 834 | 303 | 156 | 83 |
| 26.... | 7.2 | 9.3 | 18 | 17 | 15 | 6.5 | 205 | 1430 | 859 | 294 | 104 | 74 |
| 27.... | 7.9 | 8.6 | 17 | 17 | 15 | 6.5 | 212 | 1190 | 801 | 318 | 95 | 72 |
| 28.... | 7.9 | 15 | 19 | 18 | 15 | 7.2 | 184 | 1090 | 784 | 368 | 198 | 70 |
| 29.... | 7.2 | 12 | 19 | 17 | .... | 6.5 | 76 | 1360 | 825 | 332 | 384 | 68 |
| 30.... | 7.2 | 12 | 19 | 16 | .... | 7.9 | 92 | 1700 | 801 | 406 | 426 | 81 |
| 31.... | 7.2 | .... | 20 | 16 | .... | 7.9 | .... | 1720 | .... | 492 | 451 | .... |
| Total | 3229.6 | 244.1 | 523.5 | 558 | 428 | 327.4 | 2258.3 | 33134 | 37237 | 14141 | 8418 | 6149 |
| Mean. | 104 | 8.14 | 16.9 | 18.0 | 15.3 | 10.6 | 76.3 | 1069 | 1241 | 456 | 272 | 205 |
| Max. | 181 | 15 | 25 | 20 | 18 | 17 | 212 | 1810 | 2180 | 720 | 451 | 492 |
| Min. | 7.2 | 3.7 | 5.0 | 16 | 12 | 6.5 | 7.2 | 107 | 688 | 249 | 95 | 62 |
| Acre-ft. | 6410 | 484 | 1040 | 1110 | 849 | 649 | 4540 | 65720 | 73860 | 28050 | 16700 | 12200 |

Total run-off for water year 1938-39=211,612 acre-feet.

**Discharge of Cache La Poudre River at Mouth of Canon Near Fort Collins, Colorado,
for Year Ending Sept. 30, 1940.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|--------|-------|------|------|------|------|-------|-------|-------|-------|-------|
| 1.... | 76 | 7.9 | 24 | 19 | 22 | 38 | 21 | 147 | 1720 | 610 | 162 | 242 |
| 2.... | 72 | 8.1 | 20 | 19 | 21 | 35 | 24 | 117 | 1440 | 665 | 156 | 327 |
| 3.... | 68 | 7.9 | 21 | 18 | 20 | 31 | 27 | 150 | 1370 | 793 | 144 | 342 |
| 4.... | 64 | 6.8 | 21 | 18 | 20 | 26 | 19 | 195 | 1220 | 728 | 208 | 368 |
| 5.... | 66 | 6.2 | 19 | 15 | 20 | 24 | 20 | 284 | 1230 | 580 | 294 | 363 |
| 6.... | 64 | 6.0 | 15 | 10 | 21 | 23 | 23 | 342 | 1130 | 557 | 294 | 363 |
| 7.... | 68 | 60 | 17 | 11 | 24 | 20 | 30 | 464 | 859 | 595 | 303 | 342 |
| 8.... | 68 | 60 | 9.3 | 12 | 25 | 16 | 26 | 445 | 728 | 602 | 313 | 327 |
| 9.... | 79 | 54 | 19 | 14 | 24 | 21 | 19 | 432 | 572 | 549 | 303 | 249 |
| 10.... | 92 | 50 | 19 | 15 | 24 | 30 | 19 | 564 | 458 | 520 | 289 | 212 |
| 11.... | 83 | 38 | 16 | 16 | 24 | 27 | 19 | 680 | 492 | 492 | 156 | 175 |
| 12.... | 86 | 33 | 15 | 16 | 25 | 26 | 18 | 913 | 610 | 464 | 90 | 136 |
| 13.... | 88 | 28 | 5.1 | 15 | 26 | 16 | 17 | 842 | 809 | 451 | 83 | 110 |
| 14.... | 88 | 28 | 3.7 | 14 | 26 | 16 | 20 | 618 | 1030 | 426 | 88 | 120 |
| 15.... | 83 | 27 | 13 | 15 | 25 | 28 | 21 | 564 | 1100 | 284 | 79 | 110 |
| 16.... | 81 | 18 | 15 | 16 | 26 | 30 | 38 | 768 | 1200 | 284 | 68 | 100 |
| 17.... | 79 | 15 | 16 | 15 | 26 | 30 | 52 | 931 | 1190 | 271 | 368 | 88 |
| 18.... | 74 | 10 | 12 | 14 | 25 | 27 | 42 | 720 | 1160 | 406 | 266 | 97 |
| 19.... | 72 | 3.0 | 11 | 12 | 24 | 21 | 33 | 649 | 1130 | 499 | 303 | 92 |
| 20.... | 70 | 7.9 | 8 | 13 | 23 | 23 | 34 | 825 | 1140 | 413 | 358 | 92 |
| 21.... | 64 | 18 | 11 | 14 | 23 | 26 | 48 | 793 | 1140 | 426 | 379 | 92 |
| 22.... | 62 | 30 | 15 | 15 | 24 | 27 | 58 | 728 | 1010 | 438 | 368 | 94 |
| 23.... | 62 | 40 | 14 | 15 | 25 | 28 | 62 | 744 | 940 | 406 | 358 | 96 |
| 24.... | 62 | 27 | 10 | 13 | 26 | 30 | 60 | 776 | 877 | 395 | 374 | 160 |
| 25.... | 64 | 27 | 8 | 14 | 27 | 31 | 92 | 877 | 793 | 363 | 219 | 199 |
| 26.... | 64 | 15 | 10 | 15 | 29 | 31 | 120 | 985 | 704 | 347 | 150 | 122 |
| 27.... | 62 | 6.5 | 12 | 16 | 35 | 33 | 136 | 1220 | 610 | 342 | 172 | 114 |
| 28.... | 62 | 11 | 14 | 16 | 38 | 31 | 159 | 1310 | 618 | 332 | 169 | 114 |
| 29.... | 58 | 19 | 16 | 17 | 40 | 30 | 184 | 1340 | 626 | 271 | 136 | 144 |
| 30.... | 68 | 24 | 17 | 20 | .... | 27 | 178 | 1310 | 618 | 208 | 122 | 238 |
| 31.... | 62 | .... | 19 | 22 | .... | 23 | .... | 1540 | .... | 181 | 107 | .... |
| Total | 2211 | 1078.4 | 445.1 | 474 | 738 | 825 | 1619 | 22273 | 28524 | 13898 | 6879 | 5568 |
| Mean. | 71.3 | 35.9 | 14.4 | 15.3 | 25.4 | 26.6 | 54.0 | 718 | 951 | 448 | 222 | 186 |
| Max. | 92 | 81 | 24 | 22 | 40 | 38 | 184 | 1540 | 1720 | 793 | 379 | 368 |
| Min. | 58 | 3.0 | 3.7 | 10 | 20 | 16 | 17 | 117 | 458 | 181 | 68 | 88 |
| Acre-ft. | 4390 | 2140 | 883 | 940 | 1460 | 1640 | 3210 | 44180 | 56580 | 27570 | 13640 | 11040 |

Total run-off for water year 1939-40=167,670 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Cache La Poudre River Near Mouth Near Greeley, Colo., for Year Ending
Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| 1..... | 26 | 29 | 88 | 66 | 83 | 80 | 81 | 24 | 23 | 13 | 10 | 9.8 |
| 2..... | 28 | 35 | 88 | 63 | 70 | 80 | 81 | 19 | 28 | 13 | 9.8 | 9.8 |
| 3..... | 21 | 35 | 85 | 67 | 76 | 80 | 78 | 8.6 | 32 | 13 | 9.8 | 9.2 |
| 4..... | 17 | 28 | 83 | 68 | 88 | 79 | 78 | 5.6 | 36 | 13 | 9.2 | 8.6 |
| 5..... | 17 | 28 | 81 | 63 | 85 | 82 | 78 | 5.0 | 25 | 13 | 8.6 | 8.6 |
| 6..... | 23 | 29 | 83 | 67 | 81 | 88 | 79 | 5.6 | 19 | 18 | 9.2 | 8.0 |
| 7..... | 24 | 29 | 84 | 66 | 85 | 100 | 85 | 8.6 | 16 | 43 | 10 | 8.6 |
| 8..... | 23 | 28 | 83 | 67 | 75 | 126 | 87 | 11 | 13 | 39 | 10 | 9.8 |
| 9..... | 23 | 28 | 83 | 76 | 71 | 123 | 87 | 6.8 | 15 | 30 | 9.8 | 9.8 |
| 10..... | 25 | 57 | 84 | 71 | 74 | 111 | 87 | 6.2 | 23 | 9.8 | 10 | 9.2 |
| 11..... | 23 | 88 | 84 | 68 | 80 | 144 | 87 | 8.0 | 25 | 9.8 | 11 | 8.8 |
| 12..... | 21 | 87 | 78 | 68 | 96 | 144 | 84 | 17 | 30 | 9.8 | 11 | 8.6 |
| 13..... | 19 | 84 | 74 | 70 | 72 | 123 | 80 | 24 | 26 | 9.8 | 10 | 9.2 |
| 14..... | 17 | 84 | 81 | 80 | 82 | 116 | 78 | 15 | 18 | 10 | 10 | 7.4 |
| 15..... | 17 | 84 | 81 | 67 | 85 | 110 | 81 | 16 | 19 | 12 | 11 | 7.4 |
| 16..... | 17 | 81 | 83 | 80 | 83 | 114 | 72 | 12 | 18 | 11 | 9.8 | 6.8 |
| 17..... | 16 | 83 | 74 | 80 | 80 | 117 | 64 | 16 | 12 | 11 | 8.6 | 6.8 |
| 18..... | 21 | 81 | 70 | 83 | 79 | 117 | 61 | 16 | 15 | 12 | 16 | 6.8 |
| 19..... | 24 | 83 | 68 | 83 | 78 | 116 | 56 | 13 | 10 | 11 | 51 | 6.2 |
| 20..... | 29 | 83 | 74 | 81 | 77 | 116 | 48 | 12 | 16 | 11 | 53 | 6.8 |
| 21..... | 32 | 81 | 74 | 85 | 77 | 114 | 39 | 13 | 13 | 10 | 41 | 6.8 |
| 22..... | 28 | 79 | 70 | 79 | 81 | 97 | 49 | 15 | 9.8 | 9.2 | 16 | 6.8 |
| 23..... | 23 | 79 | 67 | 67 | 77 | 92 | 46 | 9.8 | 9.8 | 8.6 | 14 | 7.4 |
| 24..... | 24 | 79 | 64 | 75 | 80 | 88 | 48 | 15 | 14 | 8.0 | 14 | 8.0 |
| 25..... | 24 | 83 | 67 | 80 | 79 | 88 | 42 | 23 | 15 | 7.4 | 14 | 8.0 |
| 26..... | 25 | 78 | 63 | 79 | 80 | 85 | 39 | 26 | 15 | 8.0 | 15 | 8.0 |
| 27..... | 27 | 83 | 63 | 80 | 84 | 85 | 38 | 27 | 19 | 8.0 | 17 | 8.0 |
| 28..... | 25 | 79 | 66 | 84 | 83 | 94 | 34 | 21 | 12 | 9.2 | 13 | 8.0 |
| 29..... | 23 | 83 | 62 | 88 | .... | 93 | 34 | 19 | 12 | 9.8 | 12 | 18 |
| 30..... | 22 | 85 | 63 | 85 | .... | 88 | 34 | 19 | 13 | 11 | 12 | 48 |
| 31..... | 24 | .... | 67 | 90 | .... | 83 | .... | 16 | .... | 11 | 10 | .... |
| Total | 708 | 1973 | 2335 | 2326 | 2241 | 3173 | 1935 | 453.2 | 551.6 | 412.4 | 465.8 | 293.0 |
| Mean... | 22.8 | 65.8 | 75.3 | 75.0 | 80.0 | 102 | 64.5 | 14.6 | 18.4 | 13.3 | 15.0 | 9.77 |
| Max... | 32 | 88 | 88 | 90 | 96 | 144 | 87 | 27 | 36 | 43 | 53 | 48 |
| Min... | 16 | 28 | 62 | 63 | 70 | 79 | 34 | 5 | 9.8 | 7.4 | 8.6 | 6.2 |
| Acre-ft. | 1400 | 3910 | 4630 | 4610 | 4440 | 6290 | 3840 | 899 | 1090 | 818 | 924 | 581 |

Total run-off for water year 1938-39=33,432 acre-feet.

**Discharge of Cache La Poudre River Near Mouth Near Greeley, Colorado, for Year Ending
Sept. 30, 1940.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|------|------|------|------|-------|-------|------|-------|-------|-------|
| 1..... | 47 | 12 | 30 | 55 | 52 | 61 | 48 | 6.2 | 12 | 25 | 9.2 | 2.6 |
| 2..... | 46 | 12 | 31 | 54 | 51 | 59 | 48 | 4.4 | 15 | 27 | 9.2 | 2.3 |
| 3..... | 45 | 10 | 12 | 54 | 50 | 57 | 46 | 4.4 | 18 | 34 | 9.2 | 2.6 |
| 4..... | 35 | 11 | 10 | 53 | 50 | 57 | 47 | 4.4 | 22 | 65 | 9.2 | 2.9 |
| 5..... | 11 | 3.5 | 12 | 53 | 53 | 56 | 47 | 4.4 | 31 | 34 | 8.6 | 15 |
| 6..... | 9.8 | 15 | 17 | 50 | 52 | 61 | 51 | 4.7 | 34 | 25 | 7.4 | 28 |
| 7..... | 9.8 | 14 | 26 | 45 | 54 | 57 | 51 | 5.0 | 37 | 16 | 6.2 | 30 |
| 8..... | 9.2 | 13 | 41 | 50 | 53 | 53 | 50 | 6.8 | 49 | 12 | 6.2 | 28 |
| 9..... | 9.2 | 15 | 42 | 51 | 53 | 50 | 51 | 5.6 | 78 | 9.8 | 6.2 | 41 |
| 10..... | 9.8 | 16 | 45 | 50 | 54 | 49 | 49 | 5.6 | 74 | 8.0 | 5.6 | 45 |
| 11..... | 10 | 18 | 55 | 50 | 54 | 49 | 50 | 5.0 | 53 | 7.4 | 5.0 | 37 |
| 12..... | 9.2 | 14 | 56 | 49 | 54 | 49 | 49 | 6.2 | 13 | 8.6 | 5.0 | 34 |
| 13..... | 9.2 | 13 | 55 | 50 | 54 | 48 | 49 | 6.8 | 12 | 9.2 | 5.0 | 34 |
| 14..... | 10 | 13 | 53 | 48 | 55 | 46 | 48 | 8.6 | 12 | 9.8 | 6.2 | 33 |
| 15..... | 9.8 | 14 | 55 | 48 | 57 | 46 | 47 | 6.2 | 10 | 9.2 | 5.6 | 34 |
| 16..... | 9.8 | 13 | 55 | 50 | 53 | 46 | 44 | 8.0 | 15 | 10 | 7.4 | 29 |
| 17..... | 9.8 | 13 | 54 | 50 | 53 | 46 | 48 | 15 | 19 | 11 | 5.0 | 12 |
| 18..... | 9.8 | 15 | 54 | 49 | 53 | 45 | 37 | 22 | 23 | 11 | 4.7 | 16 |
| 19..... | 9.8 | 13 | 53 | 53 | 57 | 45 | 13 | 20 | 18 | 12 | 4.7 | 13 |
| 20..... | 12 | 12 | 56 | 53 | 53 | 45 | 7.4 | 16 | 22 | 13 | 4.7 | 12 |
| 21..... | 12 | 12 | 57 | 51 | 53 | 45 | 6.2 | 21 | 18 | 15 | 4.4 | 16 |
| 22..... | 12 | 12 | 55 | 49 | 54 | 45 | 5.6 | 23 | 18 | 13 | 4.1 | 18 |
| 23..... | 13 | 12 | 55 | 47 | 50 | 45 | 5.0 | 21 | 19 | 12 | 3.8 | 17 |
| 24..... | 13 | 12 | 53 | 47 | 53 | 45 | 5.0 | 18 | 20 | 10 | 3.8 | 15 |
| 25..... | 13 | 12 | 55 | 47 | 54 | 48 | 5.0 | 13 | 20 | 12 | 3.5 | 20 |
| 26..... | 13 | 12 | 51 | 47 | 56 | 47 | 5.0 | 8.0 | 22 | 12 | 3.8 | 18 |
| 27..... | 13 | 12 | 51 | 47 | 56 | 48 | 4.7 | 16 | 24 | 10 | 3.5 | 11 |
| 28..... | 13 | 16 | 53 | 47 | 57 | 49 | 5.6 | 18 | 24 | 10 | 3.2 | 9.8 |
| 29..... | 14 | 22 | 53 | 49 | 61 | 49 | 5.0 | 14 | 23 | 9.8 | 2.9 | 11 |
| 30..... | 13 | 22 | 55 | 49 | .... | 48 | 5.0 | 9.2 | 23 | 9.8 | 2.6 | 12 |
| 31..... | 12 | .... | 55 | 50 | .... | 48 | .... | 8.6 | .... | 9.2 | 2.3 | .... |
| Total | 472.2 | 403.5 | 1405 | 1545 | 1559 | 1542 | 932.5 | 335.1 | 778 | 479.8 | 168.2 | 599.2 |
| Mean... | 15.2 | 13.4 | 45.3 | 49.8 | 53.8 | 49.7 | 31.1 | 10.8 | 25.9 | 15.5 | 5.43 | 20.0 |
| Max... | 47 | 22 | 57 | 55 | 61 | 61 | 51 | 23 | 78 | 65 | 9.2 | 45 |
| Min... | 9.2 | 3.5 | 10 | 45 | 50 | 45 | 4.7 | 4.4 | 10 | 7.4 | 2.3 | 2.3 |
| Acre-ft. | 937 | 800 | 2790 | 3060 | 3090 | 3060 | 1850 | 665 | 1540 | 952 | 334 | 1190 |

Total run-off for water year 1939-40=20,270 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Fork of Republican River Near Wray, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1.... | 16 | 20 | 23 | 26 | 23 | 24 | 26 | 22 | 21 | 16 | 22 | 17 |
| 2.... | 16 | 20 | 23 | 25 | 23 | 24 | 24 | 22 | 24 | 16 | 22 | 17 |
| 3.... | 16 | 20 | 24 | 24 | 23 | 24 | 24 | 22 | 20 | 16 | 22 | 16 |
| 4.... | 16 | 20 | 24 | 23 | 23 | 24 | 24 | 22 | 20 | 16 | 22 | 16 |
| 5.... | 16 | 21 | 24 | 23 | 23 | 24 | 24 | 21 | 20 | 16 | 22 | 16 |
| 6.... | 16 | 21 | 24 | 23 | 23 | 24 | 24 | 21 | 19 | 15 | 22 | 16 |
| 7.... | 16 | 21 | 24 | 23 | 23 | 24 | 23 | 21 | 19 | 15 | 21 | 16 |
| 8.... | 16 | 22 | 25 | 24 | 24 | 24 | 23 | 21 | 19 | 15 | 20 | 16 |
| 9.... | 17 | 22 | 25 | 24 | 24 | 25 | 23 | 21 | 19 | 15 | 20 | 16 |
| 10.... | 17 | 22 | 25 | 24 | 24 | 24 | 28 | 19 | 19 | 16 | 20 | 16 |
| 11.... | 17 | 22 | 25 | 23 | 23 | 25 | 28 | 19 | 19 | 16 | 20 | 16 |
| 12.... | 17 | 23 | 26 | 23 | 23 | 27 | 24 | 18 | 19 | 16 | 20 | 16 |
| 13.... | 18 | 23 | 26 | 23 | 23 | 28 | 23 | 18 | 19 | 16 | 19 | 16 |
| 14.... | 18 | 24 | 26 | 23 | 23 | 27 | 22 | 18 | 18 | 16 | 18 | 16 |
| 15.... | 18 | 24 | 27 | 23 | 23 | 24 | 23 | 18 | 18 | 16 | 18 | 16 |
| 16.... | 19 | 24 | 28 | 23 | 23 | 24 | 23 | 18 | 18 | 16 | 18 | 16 |
| 17.... | 20 | 24 | 28 | 23 | 23 | 24 | 22 | 18 | 18 | 16 | 18 | 16 |
| 18.... | 20 | 24 | 29 | 23 | 23 | 25 | 22 | 18 | 18 | 16 | 18 | 19 |
| 19.... | 20 | 23 | 29 | 24 | 23 | 24 | 21 | 17 | 17 | 17 | 19 | 20 |
| 20.... | 20 | 23 | 29 | 24 | 23 | 24 | 21 | 18 | 17 | 17 | 19 | 20 |
| 21.... | 20 | 23 | 29 | 24 | 23 | 24 | 20 | 16 | 17 | 15 | 18 | 19 |
| 22.... | 20 | 22 | 29 | 24 | 23 | 24 | 20 | 16 | 17 | 16 | 18 | 18 |
| 23.... | 20 | 22 | 30 | 24 | 23 | 24 | 20 | 17 | 17 | 16 | 18 | 18 |
| 24.... | 20 | 22 | 30 | 24 | 23 | 24 | 20 | 18 | 16 | 16 | 18 | 18 |
| 25.... | 20 | 23 | 28 | 24 | 23 | 24 | 20 | 18 | 16 | 17 | 18 | 18 |
| 26.... | 20 | 23 | 24 | 24 | 23 | 24 | 21 | 26 | 15 | 15 | 18 | 18 |
| 27.... | 20 | 23 | 19 | 24 | 23 | 24 | 21 | 28 | 17 | 15 | 18 | 18 |
| 28.... | 20 | 23 | 21 | 24 | 24 | 24 | 21 | 22 | 17 | 15 | 17 | 18 |
| 29.... | 20 | 23 | 24 | 24 | ... | 24 | 21 | 21 | 16 | 15 | 17 | 18 |
| 30.... | 20 | 23 | 25 | 24 | ... | 30 | 21 | 20 | 16 | 15 | 16 | 18 |
| 31.... | 20 | ... | 25 | 24 | ... | 27 | ... | 20 | ... | 84 | 17 | ... |
| Total | 569 | 670 | 798 | 732 | 648 | 766 | 677 | 614 | 545 | 557 | 593 | 514 |
| Mean.. | 18.4 | 22.3 | 25.7 | 23.6 | 23.1 | 24.7 | 22.6 | 19.8 | 18.2 | 18.0 | 19.1 | 17.1 |
| Max... | 20 | 24 | 30 | 26 | 24 | 30 | 28 | 28 | 24 | 84 | 22 | 20 |
| Min... | 16 | 20 | 19 | 22 | 23 | 24 | 20 | 16 | 15 | 15 | 16 | 16 |
| Acre-ft. | 1130 | 1330 | 1580 | 1450 | 1290 | 1520 | 1340 | 1220 | 1080 | 1100 | 1180 | 1020 |

Total run-off for water year 1938-39=15,240 acre-feet.

Discharge of North Fork of Republican River Near Wray, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|-------|
| 1.... | 18 | 20 | 23 | 22 | 25 | 24 | 23 | 23 | 20 | 17 | 15 | 19 |
| 2.... | 18 | 20 | 23 | 22 | 25 | 28 | 23 | 23 | 18 | 17 | 14 | 20 |
| 3.... | 18 | 20 | 23 | 22 | 25 | 31 | 23 | 22 | 18 | 17 | 14 | 20 |
| 4.... | 18 | 20 | 22 | 22 | 24 | 26 | 22 | 22 | 20 | 17 | 14 | 22 |
| 5.... | 18 | 20 | 22 | 23 | 24 | 26 | 22 | 20 | 21 | 17 | 14 | 23 |
| 6.... | 18 | 20 | 22 | 23 | 24 | 25 | 22 | 20 | 22 | 17 | 14 | 21 |
| 7.... | 18 | 20 | 22 | 23 | 25 | 25 | 23 | 20 | 83 | 17 | 15 | 21 |
| 8.... | 18 | 20 | 22 | 23 | 24 | 24 | 23 | 20 | 34 | 17 | 15 | 19 |
| 9.... | 18 | 20 | 22 | 23 | 24 | 24 | 22 | 20 | 20 | 17 | 15 | 19 |
| 10.... | 19 | 20 | 22 | 23 | 24 | 25 | 21 | 19 | 20 | 17 | 16 | 20 |
| 11.... | 20 | 20 | 22 | 23 | 26 | 25 | 22 | 18 | 20 | 16 | 16 | 20 |
| 12.... | 20 | 20 | 22 | 23 | 26 | 24 | 21 | 18 | 19 | 15 | 16 | 18 |
| 13.... | 20 | 22 | 22 | 23 | 25 | 24 | 22 | 18 | 20 | 15 | 15 | 18 |
| 14.... | 19 | 22 | 21 | 23 | 25 | 26 | 22 | 17 | 20 | 13 | 15 | 19 |
| 15.... | 19 | 22 | 21 | 23 | 25 | 28 | 21 | 18 | 20 | 16 | 15 | 19 |
| 16.... | 20 | 22 | 21 | 23 | 25 | 27 | 24 | 34 | 19 | 13 | 16 | 21 |
| 17.... | 20 | 22 | 22 | 23 | 25 | 25 | 24 | 120 | 10 | 13 | 15 | 20 |
| 18.... | 19 | 22 | 22 | 23 | 25 | 24 | 24 | 23 | 8.2 | 13 | 15 | 20 |
| 19.... | 19 | 22 | 22 | 23 | 25 | 24 | 23 | 23 | 15 | 12 | 15 | 18 |
| 20.... | 19 | 22 | 22 | 23 | 25 | 23 | 23 | 24 | 15 | 12 | 14 | 18 |
| 21.... | 20 | 22 | 22 | 22 | 25 | 23 | 22 | 55 | 15 | 12 | 14 | 19 |
| 22.... | 20 | 22 | 22 | 22 | 24 | 23 | 22 | 26 | 15 | 12 | 14 | 17 |
| 23.... | 20 | 22 | 22 | 22 | 25 | 24 | 22 | 24 | 15 | 11 | 14 | 20 |
| 24.... | 20 | 22 | 22 | 21 | 25 | 24 | 22 | 22 | 15 | 12 | 14 | 22 |
| 25.... | 20 | 22 | 22 | 21 | 25 | 24 | 22 | 21 | 15 | 11 | 15 | 21 |
| 26.... | 20 | 23 | 22 | 21 | 25 | 24 | 22 | 20 | 15 | 11 | 15 | 19 |
| 27.... | 20 | 23 | 22 | 21 | 24 | 24 | 22 | 20 | 15 | 11 | 15 | 17 |
| 28.... | 20 | 23 | 22 | 21 | 24 | 26 | 23 | 20 | 16 | 14 | 16 | 16 |
| 29.... | 20 | 23 | 22 | 22 | 24 | 24 | 22 | 20 | 15 | 17 | 15 | 17 |
| 30.... | 20 | 23 | 22 | 22 | 25 | 23 | 22 | 20 | 15 | 17 | 26 | 19 |
| 31.... | 20 | ... | 22 | 25 | ... | 23 | ... | 20 | ... | 15 | 20 | ... |
| Total | 596 | 641 | 682 | 697 | 717 | 770 | 671 | 790 | 593.2 | 451 | 476 | 582 |
| Mean.. | 19.2 | 21.4 | 22.0 | 22.5 | 24.7 | 24.8 | 22.4 | 25.5 | 19.8 | 14.5 | 15.4 | 19.4 |
| Max... | 20 | 23 | 23 | 25 | 26 | 31 | 24 | 120 | 83 | 17 | 26 | 23 |
| Min... | 18 | 20 | 21 | 21 | 24 | 23 | 21 | 17 | 8.2 | 11 | 14 | 16 |
| Acre-ft. | 1180 | 1270 | 1350 | 1380 | 1420 | 1530 | 1330 | 1570 | 1180 | 895 | 944 | 1150 |

Total run-off for water year 1939-40=15,200 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of North Fork of Republican River at Colorado-Nebraska State Line for Year
Ending Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| 1.... | 28 | 30 | 58 | 64 | 54 | 56 | 58 | 37 | 25 | 7.5 | 8.5 | 6.7 |
| 2.... | 37 | 30 | 55 | 68 | 56 | 54 | 52 | 34 | 67 | 7.1 | 1.6 | 7.9 |
| 3.... | 24 | 30 | 61 | 65 | 59 | 58 | 54 | 27 | 35 | 5.1 | 8.3 | 7.1 |
| 4.... | 14 | 33 | 56 | 61 | 51 | 54 | 59 | 24 | 31 | 4.8 | 6.2 | 7.5 |
| 5.... | 22 | 34 | 59 | 65 | 52 | 55 | 54 | 27 | 27 | 5.1 | 7.5 | 6.7 |
| 6.... | 19 | 37 | 56 | 62 | 51 | 59 | 54 | 26 | 22 | 4.8 | 6.2 | 9.2 |
| 7.... | 18 | 36 | 58 | 62 | 56 | 62 | 55 | 24 | 22 | 4.5 | 7.5 | 7.5 |
| 8.... | 19 | 33 | 65 | 64 | 52 | 58 | 55 | 25 | 22 | 5.4 | 9.2 | 7.5 |
| 9.... | 21 | 33 | 62 | 70 | 35 | 58 | 55 | 23 | 23 | 5.4 | 7.5 | 7.9 |
| 10.... | 22 | 35 | 61 | 61 | 38 | 59 | 67 | 21 | 28 | 3.9 | 6.7 | 7.9 |
| 11.... | 22 | 35 | 62 | 65 | 45 | 65 | 68 | 13 | 17 | 4.8 | 7.5 | 7.5 |
| 12.... | 22 | 33 | 61 | 62 | 50 | 64 | 61 | 12 | 21 | 4.2 | 7.5 | 6.2 |
| 13.... | 24 | 34 | 64 | 62 | 60 | 62 | 56 | 9.2 | 26 | 4.2 | 6.7 | 5.8 |
| 14.... | 24 | 33 | 65 | 65 | 58 | 61 | 58 | 7.5 | 24 | 3.6 | 7.1 | 7.1 |
| 15.... | 25 | 34 | 65 | 61 | 56 | 55 | 62 | 7.1 | 18 | 3.6 | 7.5 | 9.2 |
| 16.... | 31 | 38 | 64 | 64 | 58 | 49 | 59 | 7.1 | 16 | 3.6 | 6.2 | 9.2 |
| 17.... | 22 | 55 | 62 | 64 | 55 | 55 | 58 | 12 | 9.2 | 4.2 | 5.8 | 8.8 |
| 18.... | 22 | 56 | 61 | 64 | 59 | 54 | 55 | 6.2 | 8.3 | 4.5 | 7.1 | 12 |
| 19.... | 21 | 54 | 65 | 62 | 56 | 54 | 58 | 5.8 | 8.3 | 4.2 | 7.5 | 9.2 |
| 20.... | 25 | 51 | 61 | 61 | 52 | 52 | 58 | 9.6 | 13 | 3.3 | 6.7 | 9.2 |
| 21.... | 26 | 48 | 65 | 58 | 56 | 54 | 55 | 9.2 | 24 | 3.0 | 6.7 | 9.2 |
| 22.... | 26 | 61 | 65 | 56 | 58 | 47 | 58 | 7.5 | 11 | 3.0 | 6.2 | 8.3 |
| 23.... | 30 | 65 | 59 | 59 | 54 | 47 | 58 | 6.2 | 10 | 3.3 | 6.7 | 7.9 |
| 24.... | 26 | 64 | 64 | 56 | 55 | 52 | 59 | 5.8 | 11 | 2.7 | 5.8 | 9.2 |
| 25.... | 27 | 67 | 64 | 55 | 55 | 47 | 62 | 1.9 | 32 | 3.0 | 6.1 | 12 |
| 26.... | 29 | 67 | 59 | 56 | 56 | 46 | 59 | 5.8 | 16 | 4.8 | 6.7 | 13 |
| 27.... | 30 | 67 | 50 | 55 | 55 | 52 | 54 | 4.6 | 8.8 | 3.9 | 7.5 | 15 |
| 28.... | 29 | 64 | 52 | 58 | 55 | 58 | 44 | 24 | 6.2 | 3.6 | 6.2 | 21 |
| 29.... | 30 | 64 | 56 | 54 | .... | 54 | 37 | 17 | 7.9 | 3.9 | 7.1 | 17 |
| 30.... | 44 | 56 | 60 | 55 | .... | 64 | 34 | 10 | 6.7 | 4.5 | 6.7 | 23 |
| 31.... | 28 | .... | 62 | 58 | .... | 59 | .... | 13 | .... | 7.0 | 7.1 | .... |
| Total | 787 | 1377 | 1877 | 1892 | 1497 | 1724 | 1676 | 573.2 | 596.4 | 199.5 | 302.6 | 296.1 |
| Mean. | 25.4 | 45.9 | 60.5 | 61.0 | 53.5 | 55.6 | 55.9 | 18.5 | 19.9 | 6.44 | 9.76 | 9.87 |
| Max.. | 44 | 67 | 65 | 70 | 60 | 65 | 68 | 58 | 67 | 7.0 | 8.5 | 23 |
| Min.. | 14 | 30 | 50 | 54 | 35 | 46 | 34 | 5.8 | 6.2 | 2.7 | 5.8 | 5.8 |
| Acres-ft. | 1560 | 2730 | 3720 | 3750 | 2970 | 3420 | 3320 | 1140 | 1180 | 396 | 600 | 587 |

Total run-off for water year 1938-39=25,370 acre-feet.

**Discharge of North Fork of Republican River at Colorado-Nebraska State Line for Year
Ending Sept. 30, 1940.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|------|-------|-------|-------|-------|--------|
| 1.... | 50 | 29 | 53 | 64 | 62 | 68 | 70 | 42 | 11 | 8.1 | 3.2 | 8.1 |
| 2.... | 27 | 29 | 50 | 65 | 60 | 89 | 68 | 38 | 11 | 6.8 | 3.2 | 8.6 |
| 3.... | 24 | 35 | 53 | 62 | 64 | 84 | 65 | 36 | 9.0 | 7.2 | 2.9 | 8.2 |
| 4.... | 25 | 35 | 54 | 64 | 65 | 78 | 74 | 29 | 14 | 6.4 | 2.7 | 220 |
| 5.... | 26 | 50 | 54 | 60 | 68 | 71 | 68 | 26 | 14 | 6.8 | 2.4 | 84 |
| 6.... | 25 | 34 | 54 | 58 | 70 | 70 | 64 | 19 | 52 | 8.1 | 2.4 | 79 |
| 7.... | 25 | 32 | 53 | 56 | 73 | 68 | 70 | 17 | 188 | 1.0 | 2.4 | 70 |
| 8.... | 49 | 34 | 53 | 54 | 73 | 66 | 70 | 16 | 110 | 7.2 | 2.7 | 64 |
| 9.... | 23 | 35 | 54 | 54 | 70 | 68 | 62 | 15 | 74 | 6.4 | 2.2 | 62 |
| 10.... | 25 | 35 | 60 | 56 | 70 | 65 | 66 | 11 | 53 | 5.0 | 2.2 | 66 |
| 11.... | 22 | 36 | 59 | 56 | 65 | 62 | 68 | 9.0 | 45 | 6.8 | 2.1 | 64 |
| 12.... | 23 | 38 | 59 | 63 | 65 | 62 | 58 | 15 | 52 | 7.2 | 2.4 | 65 |
| 13.... | 20 | 40 | 58 | 60 | 62 | 64 | 62 | 18 | 47 | 6.4 | 2.9 | 58 |
| 14.... | 20 | 40 | 62 | 59 | 64 | 66 | 60 | 14 | 46 | 5.5 | 3.6 | 42 |
| 15.... | 19 | 39 | 62 | 63 | 64 | 68 | 60 | 8.1 | 46 | 5.5 | 3.4 | 45 |
| 16.... | 19 | 32 | 60 | 67 | 64 | 74 | 65 | 9.0 | 42 | 5.9 | 3.4 | 24 |
| 17.... | 24 | 31 | 62 | 68 | 59 | 66 | 66 | 43 | 20 | 5.5 | 4.1 | 25 |
| 18.... | 23 | 32 | 60 | 68 | 59 | 65 | 65 | 35 | 15 | 4.6 | 3.9 | 26 |
| 19.... | 20 | 35 | 58 | 66 | 62 | 73 | 62 | 23 | 11 | 4.4 | 4.6 | 27 |
| 20.... | 23 | 49 | 56 | 63 | 58 | 66 | 66 | 30 | 9.0 | 4.1 | 5.0 | 25 |
| 21.... | 24 | 58 | 56 | 60 | 58 | 65 | 58 | 36 | 8.1 | 4.1 | 5.0 | 27 |
| 22.... | 24 | 56 | 58 | 63 | 56 | 65 | 54 | 40 | 8.6 | 4.1 | 5.0 | 29 |
| 23.... | 26 | 56 | 55 | 63 | 60 | 68 | 53 | 26 | 8.6 | 4.1 | 5.0 | 40 |
| 24.... | 27 | 53 | 53 | 58 | 62 | 73 | 54 | 24 | 9.0 | 3.9 | 4.4 | 98 |
| 25.... | 25 | 54 | 55 | 52 | 59 | 73 | 40 | 25 | 7.7 | 4.6 | 4.4 | 54 |
| 26.... | 24 | 59 | 55 | 48 | 62 | 66 | 49 | 24 | 6.8 | 7.2 | 6.4 | 45 |
| 27.... | 26 | 60 | 50 | 48 | 59 | 66 | 53 | 29 | 6.4 | 4.4 | 7.2 | 49 |
| 28.... | 27 | 56 | 46 | 50 | 62 | 76 | 53 | 19 | 6.4 | 3.9 | 6.8 | 45 |
| 29.... | 46 | 56 | 48 | 54 | 66 | 73 | 54 | 15 | 5.9 | 4.1 | 5.9 | 39 |
| 30.... | 27 | 56 | 52 | 58 | .... | 81 | 42 | 13 | 5.0 | 3.9 | 7.2 | 47 |
| 31.... | 26 | .... | 56 | 60 | .... | 74 | .... | 13 | .... | 3.9 | 8.6 | .... |
| Total | 814 | 1284 | 1718 | 1840 | 1841 | 2173 | 1819 | 717.1 | 941.5 | 176.1 | 127.6 | 1617.7 |
| Mean. | 26.3 | 42.8 | 55.4 | 59.4 | 63.3 | 70.1 | 60.6 | 23.1 | 31.4 | 5.68 | 4.12 | 53.9 |
| Max.. | 50 | 60 | 62 | 68 | 73 | 89 | 74 | 43 | 188 | 10 | 8.6 | 220 |
| Min.. | 19 | 29 | 46 | 48 | 56 | 62 | 40 | 8.1 | 5.0 | 3.9 | 2.1 | 8.1 |
| Acres-ft. | 1610 | 2550 | 3410 | 3650 | 3650 | 4310 | 3610 | 1420 | 1870 | 349 | 253 | 3210 |

Total run-off for water year 1939-40=29,890 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Grizzly Creek Near Walden, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|----------------|------|------|------|------|-------------------|-------|------|-------|-------|-------|
| 1.... | 16 | 16 | .... | .... | .... | .... | .... | 431 | 135 | 28 | 5.9 | 0.4 |
| 2.... | 17 | 16 | .... | .... | .... | .... | .... | 424 | 181 | 26 | 14 | 0.4 |
| 3.... | 16 | 25 | .... | .... | .... | .... | .... | 440 | 156 | 24 | 15 | 0.4 |
| 4.... | 15 | .... | .... | .... | .... | .... | .... | 452 | 109 | 21 | 14 | 0.5 |
| 5.... | 16 | .... | .... | .... | .... | .... | .... | 402 | 96 | 19 | 12 | 0.5 |
| 6.... | 16 | .... | .... | .... | .... | .... | .... | 390 | 89 | 18 | 9.7 | 0.6 |
| 7.... | 16 | .... | .... | .... | .... | .... | .... | 335 | 75 | 14 | 9.2 | 0.6 |
| 8.... | 17 | .... | .... | .... | .... | .... | .... | 255 | 68 | 13 | 11 | 2.9 |
| 9.... | 18 | .... | .... | .... | .... | .... | .... | 207 | 54 | 9.2 | 11 | 4.3 |
| 10.... | 19 | .... | .... | .... | .... | .... | .... | 212 | 50 | 5.9 | 8.0 | 4.3 |
| 11.... | 20 | .... | .... | .... | .... | .... | .... | 216 | 61 | 3.9 | 6.3 | 4.3 |
| 12.... | 20 | .... | .... | .... | .... | .... | .... | 194 | 46 | 2.4 | 4.7 | 3.5 |
| 13.... | 20 | .... | .... | .... | .... | .... | .... | 178 | 35 | 1.3 | 5.1 | 2.9 |
| 14.... | 20 | .... | .... | .... | .... | .... | April 15 to 30 | 143 | 27 | 1.0 | 4.7 | 2.9 |
| 15.... | 19 | .... | .... | .... | .... | .... | 120 | 144 | 25 | 0.6 | 3.9 | 2.4 |
| 16.... | 18 | .... | .... | .... | .... | .... | 105 | 162 | 21 | 0.5 | 2.7 | 1.3 |
| 17.... | 19 | .... | .... | .... | .... | .... | 95 | 173 | 18 | 0.4 | 1.0 | 0.7 |
| 18.... | 18 | .... | .... | .... | .... | .... | 83 | 146 | 18 | 0.4 | 0.6 | 0.6 |
| 19.... | 20 | .... | .... | .... | .... | .... | 94 | 167 | 25 | 0.4 | 0.6 | 0.4 |
| 20.... | 19 | .... | .... | .... | .... | .... | 91 | 181 | 29 | 0.4 | 0.4 | 0.4 |
| 21.... | 18 | .... | .... | .... | .... | .... | 96 | 188 | 36 | 0.3 | 0.4 | 0.5 |
| 22.... | 18 | .... | .... | .... | .... | .... | 127 | 165 | 35 | 0.2 | 0.4 | 0.5 |
| 23.... | 18 | .... | .... | .... | .... | .... | 201 | 159 | 32 | 0.1 | 0.4 | 0.4 |
| 24.... | 18 | .... | .... | .... | .... | .... | 221 | 160 | 35 | 0.1 | 0.3 | 0.6 |
| 25.... | 18 | .... | .... | .... | .... | .... | 216 | 151 | 37 | 0.1 | 0.2 | 1.5 |
| 26.... | 18 | .... | .... | .... | .... | .... | 201 | 129 | 36 | 0.1 | 0.2 | 2.1 |
| 27.... | 18 | .... | .... | .... | .... | .... | 216 | 106 | 35 | 0.1 | 0.2 | 3.2 |
| 28.... | 17 | .... | .... | .... | .... | .... | 268 | 91 | 33 | 0.1 | 0.2 | 3.5 |
| 29.... | 17 | .... | .... | .... | .... | .... | 322 | 82 | 30 | 0.1 | 0.2 | 5.1 |
| 30.... | 17 | Nov. 1 to 3 | .... | .... | .... | .... | 388 | 86 | 31 | 0.1 | 0.4 | 6.7 |
| 31.... | 16 | .... | .... | .... | .... | .... | .... | 117 | .... | 0.1 | 0.4 | .... |
| Total | 552 | 57 | .... | .... | .... | .... | 2844 | 6686 | 1658 | 190.8 | 143.1 | 58.4 |
| Mean. | 17.8 | 19 | .... | .... | .... | .... | 178 | 216 | 55.3 | 6.15 | 4.62 | 1.95 |
| Max. | 20 | 25 | .... | .... | .... | .... | 388 | 452 | 181 | 28 | 15 | 6.7 |
| Min. | 15 | 16 | .... | .... | .... | .... | 83 | 82 | 18 | 0.1 | 0.2 | 0.4 |
| Acre-ft. | 1090 | 113 | .... | .... | .... | .... | 5640 | 13260 | 3290 | 378 | 284 | 116 |

Total run-off for water year 1938-39—24,171 acre-feet.

Discharge of Grizzly Creek Near Walden, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|------|------|-------|------|-------|
| 1.... | 11 | .... | .... | .... | .... | .... | 120 | 63 | 84 | 13 | 0.1 | 1.6 |
| 2.... | 12 | .... | .... | .... | .... | .... | 130 | 53 | 81 | 12 | 2.1 | 1.0 |
| 3.... | 14 | .... | .... | .... | .... | .... | 120 | 92 | 86 | 13 | 2.1 | .6 |
| 4.... | 16 | .... | .... | .... | .... | .... | 105 | 155 | 86 | 14 | 1.9 | .4 |
| 5.... | 16 | .... | .... | .... | .... | .... | 100 | 193 | 89 | 14 | 1.4 | .4 |
| 6.... | 16 | .... | .... | .... | .... | .... | 98 | 201 | 95 | 12 | 1.2 | .3 |
| 7.... | 16 | .... | .... | .... | .... | .... | 96 | 198 | 126 | 10 | 1.2 | .2 |
| 8.... | 17 | .... | .... | .... | .... | .... | 88 | 177 | 95 | 11 | 1.2 | .2 |
| 9.... | 20 | .... | .... | .... | .... | .... | 80 | 158 | 68 | 9.7 | 1.9 | .2 |
| 10.... | 24 | .... | .... | .... | .... | .... | 74 | 168 | 63 | 7.9 | 1.7 | .4 |
| 11.... | 24 | .... | .... | .... | .... | .... | 67 | 169 | 50 | 9.7 | 1.2 | .3 |
| 12.... | 27 | .... | .... | .... | .... | .... | 60 | 163 | 32 | 6.8 | .8 | .2 |
| 13.... | 28 | .... | .... | .... | .... | .... | 55 | 172 | 23 | 5.1 | .6 | .4 |
| 14.... | 31 | .... | .... | .... | .... | .... | 52 | 224 | 18 | 3.6 | .5 | .6 |
| 15.... | 31 | .... | .... | .... | .... | .... | 70 | 166 | 20 | 3.2 | .4 | .8 |
| 16.... | 32 | .... | .... | .... | .... | .... | 78 | 153 | 23 | 2.1 | .3 | .8 |
| 17.... | 32 | .... | .... | .... | .... | .... | 72 | 169 | 24 | 2.1 | .2 | 1.6 |
| 18.... | 35 | .... | .... | .... | .... | .... | 59 | 172 | 27 | 1.9 | .1 | 1.9 |
| 19.... | 37 | .... | .... | .... | .... | .... | 50 | 137 | 27 | 1.4 | .1 | 2.1 |
| 20.... | 38 | .... | .... | .... | .... | .... | 58 | 116 | 25 | 1.0 | .1 | 2.5 |
| 21.... | 38 | .... | .... | .... | .... | .... | 58 | 177 | 28 | .6 | 0 | 4.0 |
| 22.... | 39 | .... | .... | .... | .... | .... | 65 | 204 | 28 | .5 | 0 | 4.4 |
| 23.... | 40 | .... | .... | .... | .... | .... | 55 | 128 | 24 | .4 | 0 | 5.5 |
| 24.... | 41 | .... | .... | .... | .... | .... | 55 | 100 | 22 | .3 | .1 | 5.8 |
| 25.... | 42 | .... | .... | .... | .... | .... | 99 | 86 | 20 | .3 | 1.0 | 4.7 |
| 26.... | 43 | .... | .... | .... | .... | .... | 142 | 84 | 19 | .2 | .8 | 4.0 |
| 27.... | 42 | .... | .... | .... | .... | .... | 156 | 136 | 17 | .2 | .8 | 4.0 |
| 28.... | 51 | .... | .... | .... | .... | .... | 164 | 163 | 16 | .2 | 1.7 | 3.6 |
| 29.... | 44 | .... | .... | .... | .... | .... | 127 | 150 | 15 | .1 | 2.5 | 6.2 |
| 30.... | 43 | .... | .... | .... | .... | .... | 93 | 120 | 14 | .1 | 2.5 | 9.1 |
| 31.... | 44 | .... | .... | .... | .... | .... | .... | 100 | .... | .1 | 1.9 | .... |
| Total | 944 | .... | .... | .... | .... | .... | 2646 | 4547 | 1345 | 156.5 | 30.4 | 67.8 |
| Mean. | 30.5 | .... | .... | .... | .... | .... | 88.2 | 147 | 44.8 | 5.05 | .98 | 2.26 |
| Max. | 51 | .... | .... | .... | .... | .... | 164 | 224 | 126 | 14 | 2.5 | 9.1 |
| Min. | 11 | .... | .... | .... | .... | .... | 50 | 53 | 14 | .1 | 0 | .2 |
| Acre-ft. | 1870 | .... | .... | .... | .... | .... | 5250 | 9020 | 2670 | 310 | 60 | 134 |

Total run-off for period—19,310 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Little Grizzly Creek Near Hebron, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.... | 14 | 16 | ..... | ..... | ..... | ..... | ..... | 220 | 291 | 16 | 6.4 | 0 |
| 2.... | 15 | 18 | ..... | ..... | ..... | ..... | ..... | 240 | 268 | 13 | 5.8 | 0 |
| 3.... | 15 | 19 | ..... | ..... | ..... | ..... | ..... | 256 | 166 | 9.4 | 5.2 | 0 |
| 4.... | 11 | 17 | ..... | ..... | ..... | ..... | ..... | 266 | 166 | 8.8 | 3.7 | 0 |
| 5.... | 10 | ..... | ..... | ..... | ..... | ..... | ..... | 242 | 244 | 7.0 | 2.8 | 0 |
| 6.... | 11 | ..... | ..... | ..... | ..... | ..... | ..... | 236 | 211 | 5.8 | 2.5 | 0 |
| 7.... | 13 | ..... | ..... | ..... | ..... | ..... | ..... | 192 | 161 | 5.8 | 3.1 | 0 |
| 8.... | 15 | ..... | ..... | ..... | ..... | ..... | ..... | 146 | 144 | 5.2 | 3.1 | 0 |
| 9.... | 14 | ..... | ..... | ..... | ..... | ..... | ..... | 117 | 126 | 4.6 | 2.8 | 17 |
| 10.... | 13 | ..... | ..... | ..... | ..... | ..... | ..... | 146 | 156 | 6.4 | 2.2 | 14 |
| 11.... | 12 | ..... | ..... | ..... | ..... | ..... | ..... | 170 | 104 | 7.6 | 1.3 | 7.0 |
| 12.... | 11 | ..... | ..... | ..... | ..... | ..... | ..... | 153 | 97 | 5.8 | 1.0 | 26 |
| 13.... | 12 | ..... | ..... | ..... | ..... | ..... | ..... | 137 | 105 | 3.4 | 0.9 | 19 |
| 14.... | 11 | ..... | ..... | ..... | ..... | ..... | ..... | 101 | 131 | 1.9 | 0.7 | 11 |
| 15.... | 10 | ..... | ..... | ..... | ..... | ..... | ..... | 93 | 134 | 1.1 | 0.3 | 8.2 |
| 16.... | 9.7 | ..... | ..... | ..... | ..... | ..... | ..... | 80 | 151 | 105 | 0.8 | 0.1 |
| 17.... | 9.7 | ..... | ..... | ..... | ..... | ..... | ..... | 70 | 156 | 90 | 0.7 | 0.2 |
| 18.... | 9.7 | ..... | ..... | ..... | ..... | ..... | ..... | 58 | 153 | 76 | 1.6 | 0 |
| 19.... | 9.7 | ..... | ..... | ..... | ..... | ..... | ..... | 66 | 188 | 61 | 2.5 | 0 |
| 20.... | 10 | ..... | ..... | ..... | ..... | ..... | ..... | 64 | 203 | 48 | 2.2 | 0 |
| 21.... | 9.7 | ..... | ..... | ..... | ..... | ..... | ..... | 70 | 188 | 36 | 1.3 | 0.3 |
| 22.... | 10 | ..... | ..... | ..... | ..... | ..... | ..... | 98 | 179 | 33 | 0.8 | 0.2 |
| 23.... | 10 | ..... | ..... | ..... | ..... | ..... | ..... | 129 | 181 | 26 | 0.7 | 0 |
| 24.... | 11 | ..... | ..... | ..... | ..... | ..... | ..... | 126 | 186 | 25 | 0.5 | 0 |
| 25.... | 11 | ..... | ..... | ..... | ..... | ..... | ..... | 127 | 190 | 25 | 0.4 | 0 |
| 26.... | 11 | ..... | ..... | ..... | ..... | ..... | ..... | 126 | 158 | 23 | 0.3 | 0 |
| 27.... | 12 | ..... | ..... | ..... | ..... | ..... | ..... | 122 | 131 | 21 | 0.4 | 0 |
| 28.... | 13 | ..... | ..... | ..... | ..... | ..... | ..... | 142 | 141 | 21 | 0.5 | 0 |
| 29.... | 13 | ..... | ..... | ..... | ..... | ..... | ..... | 175 | 190 | 25 | 3.1 | 0 |
| 30.... | 15 | Nov. 1 | ..... | ..... | ..... | ..... | ..... | 207 | 264 | 23 | 2.8 | 0 |
| 31.... | 15 | to 4 | ..... | ..... | ..... | ..... | ..... | ..... | 248 | ..... | 4.0 | 0 |
| Total | 366.5 | 70 | ..... | ..... | ..... | ..... | ..... | 1753 | 5663 | 3149 | 124.6 | 42.6 |
| Mean.. | 11.8 | 17.5 | ..... | ..... | ..... | ..... | ..... | 110 | 183 | 105 | 4.02 | 1.37 |
| Max... | 15 | 19 | ..... | ..... | ..... | ..... | ..... | 207 | 266 | 291 | 16 | 6.4 |
| Min... | 9.7 | 16 | ..... | ..... | ..... | ..... | ..... | 58 | 101 | 21 | 0.3 | 0 |
| Acre-ft. | 727 | 139 | ..... | ..... | ..... | ..... | ..... | 3480 | 11230 | 6250 | 247 | 84 |

Total run-off for water year 1938-39==22,538 acre-feet.

Discharge of Little Grizzly Creek, at Mouth Near Hebron, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| 1.... | 10 | ..... | ..... | ..... | ..... | ..... | ..... | 60 | 60 | 302 | 18 | 6.4 |
| 2.... | 8.8 | ..... | ..... | ..... | ..... | ..... | ..... | 65 | 50 | 313 | 17 | 5.0 |
| 3.... | 7.0 | ..... | ..... | ..... | ..... | ..... | ..... | 60 | 45 | 328 | 21 | 3.8 |
| 4.... | 7.0 | ..... | ..... | ..... | ..... | ..... | ..... | 55 | 40 | 315 | 23 | 3.0 |
| 5.... | 9.4 | ..... | ..... | ..... | ..... | ..... | ..... | 50 | 75 | 288 | 20 | 1.8 |
| 6.... | 13 | ..... | ..... | ..... | ..... | ..... | ..... | 40 | 80 | 315 | 15 | 1.4 |
| 7.... | 13 | ..... | ..... | ..... | ..... | ..... | ..... | 35 | 80 | 274 | 12 | 1.4 |
| 8.... | 14 | ..... | ..... | ..... | ..... | ..... | ..... | 30 | 80 | 170 | 11 | 1.8 |
| 9.... | 16 | ..... | ..... | ..... | ..... | ..... | ..... | 30 | 90 | 142 | 9.2 | 1.8 |
| 10.... | 17 | ..... | ..... | ..... | ..... | ..... | ..... | 35 | 95 | 127 | 7.8 | 2.2 |
| 11.... | 15 | ..... | ..... | ..... | ..... | ..... | ..... | 37 | 120 | 108 | 6.4 | 1.4 |
| 12.... | 16 | ..... | ..... | ..... | ..... | ..... | ..... | 35 | 156 | 119 | 6.4 | 1.0 |
| 13.... | 14 | ..... | ..... | ..... | ..... | ..... | ..... | 35 | 215 | 159 | 5.0 | .9 |
| 14.... | 13 | ..... | ..... | ..... | ..... | ..... | ..... | 35 | 240 | 204 | 5.0 | .9 |
| 15.... | 13 | ..... | ..... | ..... | ..... | ..... | ..... | 60 | 170 | 201 | 7.1 | .8 |
| 16.... | 13 | ..... | ..... | ..... | ..... | ..... | ..... | 75 | 153 | 199 | 7.8 | .8 |
| 17.... | 14 | ..... | ..... | ..... | ..... | ..... | ..... | 75 | 208 | 197 | 7.1 | .6 |
| 18.... | 14 | ..... | ..... | ..... | ..... | ..... | ..... | 50 | 212 | 168 | 8.5 | .6 |
| 19.... | 14 | ..... | ..... | ..... | ..... | ..... | ..... | 65 | 148 | 122 | 11 | .6 |
| 20.... | 15 | ..... | ..... | ..... | ..... | ..... | ..... | 75 | 142 | 117 | 7.1 | .5 |
| 21.... | 14 | ..... | ..... | ..... | ..... | ..... | ..... | 90 | 274 | 122 | 5.7 | .6 |
| 22.... | 15 | ..... | ..... | ..... | ..... | ..... | ..... | 80 | 212 | 120 | 5.7 | .6 |
| 23.... | 16 | ..... | ..... | ..... | ..... | ..... | ..... | 70 | 112 | 90 | 5.0 | .5 |
| 24.... | 14 | ..... | ..... | ..... | ..... | ..... | ..... | 55 | 87 | 68 | 5.0 | .8 |
| 25.... | 14 | ..... | ..... | ..... | ..... | ..... | ..... | 80 | 96 | 50 | 4.6 | 1.4 |
| 26.... | 14 | ..... | ..... | ..... | ..... | ..... | ..... | 105 | 111 | 45 | 3.8 | 1.4 |
| 27.... | 14 | ..... | ..... | ..... | ..... | ..... | ..... | 105 | 278 | 40 | 3.4 | 2.6 |
| 28.... | 17 | ..... | ..... | ..... | ..... | ..... | ..... | 80 | 293 | 33 | 3.4 | 3.8 |
| 29.... | 16 | ..... | ..... | ..... | ..... | ..... | ..... | 60 | 268 | 28 | 3.8 | 3.0 |
| 30.... | 14 | ..... | ..... | ..... | ..... | ..... | ..... | 60 | 244 | 21 | 4.6 | 2.6 |
| 31.... | 16 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 244 | ..... | 7.8 | 1.8 |
| Total | 420.2 | ..... | ..... | ..... | ..... | ..... | ..... | 1787 | 4678 | 4785 | 278.2 | 55.8 |
| Mean.. | 13.6 | ..... | ..... | ..... | ..... | ..... | ..... | 59.6 | 151 | 160 | 8.97 | 1.80 |
| Max... | 17 | ..... | ..... | ..... | ..... | ..... | ..... | 105 | 293 | 328 | 23 | 6.4 |
| Min... | 7.0 | ..... | ..... | ..... | ..... | ..... | ..... | 30 | 40 | 21 | 3.4 | .5 |
| Acre-ft. | 833 | ..... | ..... | ..... | ..... | ..... | ..... | 3540 | 9280 | 9490 | 552 | 111 |

Total run-off for period==24,020 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Roaring Fork Near Walden, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|--------|-------|-------|-------|-------|----------|------|-------|------|------|-------|
| 1.... | 30 | 21 | ..... | ..... | ..... | ..... | ..... | 60 | 234 | 34 | 60 | 17 |
| 2.... | 30 | 26 | ..... | ..... | ..... | ..... | ..... | 67 | 163 | 30 | 55 | 16 |
| 3.... | 28 | 23 | ..... | ..... | ..... | ..... | ..... | 83 | 103 | 27 | 47 | 8.6 |
| 4.... | 27 | 21 | ..... | ..... | ..... | ..... | ..... | 81 | 123 | 26 | 44 | 8.6 |
| 5.... | 28 | 21 | ..... | ..... | ..... | ..... | ..... | 76 | 195 | 25 | 39 | 9.2 |
| 6.... | 31 | ..... | ..... | ..... | ..... | ..... | ..... | 91 | 209 | 23 | 47 | 9.8 |
| 7.... | 32 | ..... | ..... | ..... | ..... | ..... | ..... | 78 | 138 | 22 | 57 | 17 |
| 8.... | 33 | ..... | ..... | ..... | ..... | ..... | ..... | 58 | 105 | 24 | 42 | 42 |
| 9.... | 33 | ..... | ..... | ..... | ..... | ..... | ..... | 47 | 103 | 23 | 32 | 26 |
| 10.... | 32 | ..... | ..... | ..... | ..... | ..... | ..... | 55 | 105 | 23 | 30 | 20 |
| 11.... | 30 | ..... | ..... | ..... | ..... | ..... | ..... | 62 | 68 | 21 | 31 | 18 |
| 12.... | 29 | ..... | ..... | ..... | ..... | ..... | April 14 | 67 | 61 | 19 | 30 | 29 |
| 13.... | 29 | ..... | ..... | ..... | ..... | ..... | to 30 | 58 | 83 | 21 | 28 | 26 |
| 14.... | 28 | ..... | ..... | ..... | ..... | ..... | 53 | 32 | 133 | 22 | 26 | 21 |
| 15.... | 27 | ..... | ..... | ..... | ..... | ..... | 56 | 34 | 151 | 22 | 24 | 18 |
| 16.... | 26 | ..... | ..... | ..... | ..... | ..... | 56 | 55 | 111 | 22 | 24 | 21 |
| 17.... | 20 | ..... | ..... | ..... | ..... | ..... | 49 | 55 | 97 | 22 | 23 | 19 |
| 18.... | 18 | ..... | ..... | ..... | ..... | ..... | 49 | 65 | 76 | 20 | 21 | 18 |
| 19.... | 19 | ..... | ..... | ..... | ..... | ..... | 43 | 120 | 57 | 17 | 18 | 16 |
| 20.... | 20 | ..... | ..... | ..... | ..... | ..... | 46 | 156 | 47 | 17 | 21 | 16 |
| 21.... | 20 | ..... | ..... | ..... | ..... | ..... | 49 | 128 | 44 | 15 | 24 | 15 |
| 22.... | 20 | ..... | ..... | ..... | ..... | ..... | 57 | 110 | 43 | 13 | 24 | 16 |
| 23.... | 20 | ..... | ..... | ..... | ..... | ..... | 68 | 130 | 35 | 13 | 22 | 18 |
| 24.... | 20 | ..... | ..... | ..... | ..... | ..... | 75 | 130 | 35 | 13 | 20 | 20 |
| 25.... | 20 | ..... | ..... | ..... | ..... | ..... | 75 | 118 | 42 | 14 | 18 | 19 |
| 26.... | 20 | ..... | ..... | ..... | ..... | ..... | 62 | 68 | 42 | 16 | 17 | 20 |
| 27.... | 20 | ..... | ..... | ..... | ..... | ..... | 56 | 49 | 37 | 20 | 16 | 19 |
| 28.... | 20 | ..... | ..... | ..... | ..... | ..... | 52 | 53 | 31 | 26 | 16 | 20 |
| 29.... | 20 | ..... | ..... | ..... | ..... | ..... | 38 | 100 | 35 | 26 | 16 | 22 |
| 30.... | 20 | Nov. 1 | ..... | ..... | ..... | ..... | 51 | 214 | 37 | 43 | 17 | 18 |
| 31.... | 20 | to 5 | ..... | ..... | ..... | ..... | ..... | 197 | ..... | 51 | 18 | ..... |
| Total | 770 | 112 | ..... | ..... | ..... | ..... | 935 | 2697 | 2743 | 710 | 907 | 563.2 |
| Mean. | 24.8 | 22.4 | ..... | ..... | ..... | ..... | 55.0 | 87.0 | 91.4 | 22.9 | 29.3 | 18.8 |
| Max. | 33 | 26 | ..... | ..... | ..... | ..... | 75 | 214 | 234 | 51 | 60 | 42 |
| Min. | 18 | 21 | ..... | ..... | ..... | ..... | 38 | 32 | 31 | 13 | 16 | 8.6 |
| Acre-ft. | 1530 | 222 | ..... | ..... | ..... | ..... | 1850 | 5350 | 5440 | 1410 | 1800 | 1120 |

Total run-off for water year 1938-39=18,722 acre-feet.

Discharge of Roaring Fork Near Walden, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|-------|--------|-------|------|------|-------|
| 1.... | 18 | 24 | 14 | ..... | ..... | ..... | 72 | 13 | 250 | 34 | 50 | 16 |
| 2.... | 18 | 23 | ..... | ..... | ..... | ..... | 76 | 11 | 258 | 38 | 44 | 15 |
| 3.... | 19 | 20 | ..... | ..... | ..... | ..... | 64 | 8.1 | 273 | 44 | 42 | 14 |
| 4.... | 22 | 18 | ..... | ..... | ..... | ..... | 56 | 7.0 | 240 | 44 | 39 | 14 |
| 5.... | 27 | 17 | ..... | ..... | ..... | ..... | 52 | 7.0 | 226 | 32 | 38 | 14 |
| 6.... | 29 | 18 | ..... | ..... | ..... | ..... | 48 | 11 | 305 | 28 | 36 | 14 |
| 7.... | 26 | 19 | ..... | ..... | ..... | ..... | 43 | 14 | 226 | 25 | 38 | 13 |
| 8.... | 25 | 21 | ..... | ..... | ..... | ..... | 39 | 18 | 124 | 23 | 36 | 13 |
| 9.... | 31 | 21 | ..... | ..... | ..... | ..... | 42 | 24 | 92 | 21 | 34 | 15 |
| 10.... | 32 | 17 | ..... | ..... | ..... | ..... | 42 | 35 | 74 | 19 | 32 | 23 |
| 11.... | 30 | 16 | ..... | ..... | ..... | ..... | 35 | 80 | 54 | 20 | 33 | 18 |
| 12.... | 28 | 16 | ..... | ..... | ..... | ..... | 26 | 122 | 75 | 20 | 29 | 16 |
| 13.... | 26 | 19 | ..... | ..... | ..... | ..... | 31 | 161 | 119 | 19 | 28 | 14 |
| 14.... | 26 | 19 | ..... | ..... | ..... | ..... | 53 | 97 | 174 | 18 | 27 | 14 |
| 15.... | 26 | 16 | ..... | ..... | ..... | ..... | 68 | 48 | 167 | 19 | 26 | 14 |
| 16.... | 25 | 15 | ..... | ..... | ..... | ..... | 48 | 81 | 178 | 19 | 27 | 14 |
| 17.... | 24 | 14 | ..... | ..... | ..... | ..... | 24 | 123 | 174 | 20 | 26 | 14 |
| 18.... | 23 | 15 | ..... | ..... | ..... | ..... | 28 | 83 | 142 | 28 | 24 | 14 |
| 19.... | 21 | 14 | ..... | ..... | ..... | ..... | 34 | 55 | 114 | 42 | 21 | 14 |
| 20.... | 20 | 14 | ..... | ..... | ..... | ..... | 38 | 49 | 125 | 36 | 21 | 15 |
| 21.... | 20 | 14 | ..... | ..... | ..... | ..... | 36 | 138 | 305 | 34 | 23 | 15 |
| 22.... | 21 | 15 | ..... | ..... | ..... | ..... | 40 | 64 | 198 | 32 | 18 | 17 |
| 23.... | 21 | 15 | ..... | ..... | ..... | ..... | 37 | 20 | 132 | 32 | 19 | 15 |
| 24.... | 20 | 19 | ..... | ..... | ..... | ..... | 46 | 16 | 95 | 31 | 21 | 16 |
| 25.... | 19 | 18 | ..... | ..... | ..... | ..... | 53 | 14 | 69 | 36 | 25 | 15 |
| 26.... | 19 | 16 | ..... | ..... | ..... | ..... | 40 | 27 | 50 | 35 | 25 | 16 |
| 27.... | 19 | 12 | ..... | ..... | ..... | ..... | 30 | 123 | 44 | 39 | 27 | 18 |
| 28.... | 19 | 12 | ..... | ..... | ..... | ..... | 32 | 149 | 31 | 49 | 20 | 17 |
| 29.... | 21 | 12 | ..... | ..... | ..... | ..... | 24 | 158 | 28 | 57 | 18 | 20 |
| 30.... | 21 | 13 | ..... | ..... | ..... | ..... | 19 | 147 | 29 | 62 | 18 | 21 |
| 31.... | 23 | ..... | ..... | ..... | ..... | ..... | ..... | 197 | ..... | 56 | 17 | ..... |
| Total | 719 | 502 | ..... | ..... | ..... | ..... | 1276 | 2100.1 | 4371 | 1012 | 882 | 468 |
| Mean. | 23.2 | 16.7 | ..... | ..... | ..... | ..... | 42.5 | 67.7 | 146 | 32.6 | 28.5 | 15.6 |
| Max. | 32 | 24 | ..... | ..... | ..... | ..... | 76 | 197 | 305 | 62 | 50 | 23 |
| Min. | 18 | 12 | ..... | ..... | ..... | ..... | 19 | 7.0 | 28 | 18 | 17 | 13 |
| Acre-ft. | 1430 | 996 | ..... | ..... | ..... | ..... | 2530 | 4170 | 8670 | 2010 | 1750 | 928 |

Total run-off for period=22,480 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Platte River Near Walden, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|--------|------|------|------|------|----------|-------|-------|------|------|-------|
| 1.... | 55 | 48 | .... | .... | .... | .... | .... | 735 | 726 | 90 | 73 | 19 |
| 2.... | 55 | 55 | .... | .... | .... | .... | .... | 758 | 744 | 83 | 78 | 19 |
| 3.... | 54 | 56 | .... | .... | .... | .... | .... | 816 | 539 | 70 | 67 | 14 |
| 4.... | 56 | 55 | .... | .... | .... | .... | .... | 843 | 456 | 62 | 64 | 12 |
| 5.... | 59 | .... | .... | .... | .... | .... | .... | 776 | 587 | 56 | 58 | 12 |
| 6.... | 63 | .... | .... | .... | .... | .... | .... | 758 | 627 | 50 | 54 | 12 |
| 7.... | 64 | .... | .... | .... | .... | .... | .... | 676 | 476 | 44 | 74 | 18 |
| 8.... | 67 | .... | .... | .... | .... | .... | .... | 497 | 387 | 44 | 58 | 45 |
| 9.... | 67 | .... | .... | .... | .... | .... | .... | 369 | 344 | 43 | 50 | 38 |
| 10.... | 67 | .... | .... | .... | .... | .... | .... | 372 | 387 | 39 | 43 | 43 |
| 11.... | 66 | .... | .... | .... | .... | .... | .... | 460 | 302 | 39 | 40 | 35 |
| 12.... | 64 | .... | .... | .... | .... | .... | April 14 | 436 | 251 | 38 | 39 | 48 |
| 13.... | 62 | .... | .... | .... | .... | .... | to 30 | 398 | 256 | 37 | 36 | 58 |
| 14.... | 59 | .... | .... | .... | .... | .... | 308 | 283 | 311 | 37 | 35 | 45 |
| 15.... | 58 | .... | .... | .... | .... | .... | 292 | 289 | 351 | 36 | 32 | 36 |
| 16.... | 56 | .... | .... | .... | .... | .... | 260 | 358 | 274 | 35 | 31 | 36 |
| 17.... | 51 | .... | .... | .... | .... | .... | 220 | 413 | 229 | 34 | 28 | 32 |
| 18.... | 49 | .... | .... | .... | .... | .... | 191 | 365 | 191 | 32 | 25 | 27 |
| 19.... | 51 | .... | .... | .... | .... | .... | 198 | 485 | 164 | 29 | 22 | 23 |
| 20.... | 50 | .... | .... | .... | .... | .... | 203 | 574 | 144 | 26 | 22 | 21 |
| 21.... | 49 | .... | .... | .... | .... | .... | 213 | 556 | 135 | 23 | 22 | 19 |
| 22.... | 49 | .... | .... | .... | .... | .... | 274 | 497 | 137 | 22 | 22 | 19 |
| 23.... | 48 | .... | .... | .... | .... | .... | 394 | 493 | 128 | 22 | 19 | 23 |
| 24.... | 49 | .... | .... | .... | .... | .... | 424 | 518 | 113 | 19 | 18 | 28 |
| 25.... | 49 | .... | .... | .... | .... | .... | 424 | 518 | 114 | 19 | 18 | 29 |
| 26.... | 48 | .... | .... | .... | .... | .... | 383 | 413 | 116 | 20 | 19 | 30 |
| 27.... | 48 | .... | .... | .... | .... | .... | 376 | 327 | 113 | 26 | 18 | 29 |
| 28.... | 46 | .... | .... | .... | .... | .... | 448 | 305 | 97 | 31 | 19 | 31 |
| 29.... | 45 | .... | .... | .... | .... | .... | 543 | 390 | 90 | 32 | 19 | 35 |
| 30.... | 45 | Nov. 1 | .... | .... | .... | .... | 654 | 587 | 97 | 48 | 20 | 32 |
| 31.... | 45 | to 4 | .... | .... | .... | .... | .... | 672 | .... | 58 | 20 | .... |
| Total | 1694 | 214 | .... | .... | .... | .... | 5805 | 15937 | 8886 | 1244 | 1143 | 868 |
| Mean. | 54.6 | 53.5 | .... | .... | .... | .... | 341 | 514 | 296 | 40.1 | 36.9 | 28.9 |
| Max.. | 67 | 56 | .... | .... | .... | .... | 654 | 843 | 744 | 90 | 78 | 58 |
| Min.. | 45 | 48 | .... | .... | .... | .... | 191 | 283 | 90 | 19 | 18 | 12 |
| Acre-ft. | 3360 | 424 | .... | .... | .... | .... | 11510 | 31610 | 17630 | 2470 | 2270 | 1720 |

Total run-off for water year 1938-39=70,994 acre-feet.

Discharge of North Platte River Near Walden, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|-------|------|------|-------|
| 1.... | 35 | 56 | .... | .... | .... | .... | 250 | 152 | 726 | 95 | 62 | 25 |
| 2.... | 34 | 56 | .... | .... | .... | .... | 270 | 126 | 748 | 98 | 56 | 22 |
| 3.... | 32 | 56 | .... | .... | .... | .... | 220 | 140 | 780 | 106 | 55 | 20 |
| 4.... | 34 | 51 | .... | .... | .... | .... | 190 | 196 | 753 | 119 | 51 | 20 |
| 5.... | 44 | 50 | .... | .... | .... | .... | 180 | 268 | 744 | 102 | 49 | 19 |
| 6.... | 48 | 54 | .... | .... | .... | .... | 170 | 292 | 816 | 86 | 45 | 18 |
| 7.... | 42 | 55 | .... | .... | .... | .... | 150 | 305 | 834 | 71 | 48 | 18 |
| 8.... | 42 | 55 | .... | .... | .... | .... | 133 | 292 | 506 | 63 | 45 | 17 |
| 9.... | 54 | 54 | .... | .... | .... | .... | 150 | 271 | 417 | 55 | 43 | 19 |
| 10.... | 56 | 46 | .... | .... | .... | .... | 156 | 308 | 358 | 49 | 42 | 32 |
| 11.... | 53 | 46 | .... | .... | .... | .... | 137 | 351 | 286 | 49 | 45 | 26 |
| 12.... | 50 | 52 | .... | .... | .... | .... | 121 | 448 | 280 | 48 | 37 | 22 |
| 13.... | 51 | 54 | .... | .... | .... | .... | 118 | 609 | 338 | 43 | 34 | 22 |
| 14.... | 49 | 54 | .... | .... | .... | .... | 133 | 690 | 448 | 38 | 32 | 22 |
| 15.... | 48 | 56 | .... | .... | .... | .... | 182 | 489 | 476 | 39 | 33 | 21 |
| 16.... | 48 | 50 | .... | .... | .... | .... | 206 | 448 | 464 | 37 | 34 | 20 |
| 17.... | 46 | 46 | .... | .... | .... | .... | 175 | 582 | 468 | 39 | 32 | 19 |
| 18.... | 45 | 48 | .... | .... | .... | .... | 146 | 600 | 413 | 50 | 29 | 20 |
| 19.... | 45 | 53 | .... | .... | .... | .... | 154 | 432 | 327 | 66 | 25 | 21 |
| 20.... | 46 | 51 | .... | .... | .... | .... | 180 | 380 | 305 | 63 | 25 | 24 |
| 21.... | 45 | 49 | .... | .... | .... | .... | 196 | 663 | 489 | 58 | 26 | 27 |
| 22.... | 44 | 40 | .... | .... | .... | .... | 206 | 681 | 432 | 54 | 24 | 32 |
| 23.... | 46 | 38 | .... | .... | .... | .... | 173 | 372 | 314 | 51 | 22 | 31 |
| 24.... | 45 | 38 | .... | .... | .... | .... | 162 | 280 | 229 | 49 | 27 | 34 |
| 25.... | 43 | 38 | .... | .... | .... | .... | 218 | 251 | 180 | 53 | 30 | 34 |
| 26.... | 43 | 38 | .... | .... | .... | .... | 283 | 295 | 142 | 49 | 34 | 35 |
| 27.... | 43 | 39 | .... | .... | .... | .... | 274 | 582 | 129 | 50 | 36 | 36 |
| 28.... | 40 | 39 | .... | .... | .... | .... | 286 | 726 | 108 | 60 | 31 | 34 |
| 29.... | 54 | 38 | .... | .... | .... | .... | 245 | 704 | 95 | 67 | 29 | 37 |
| 30.... | 48 | 39 | .... | .... | .... | .... | 198 | 618 | 89 | 73 | 29 | 43 |
| 31.... | 56 | .... | .... | .... | .... | .... | .... | 618 | .... | 67 | 26 | .... |
| Total | 1409 | 1439 | .... | .... | .... | .... | 5662 | 13169 | 12694 | 1947 | 1136 | 770 |
| Mean. | 45.5 | 48.0 | .... | .... | .... | .... | 189 | 425 | 423 | 62.8 | 36.6 | 25.7 |
| Max.. | 56 | 56 | .... | .... | .... | .... | 286 | 726 | 834 | 119 | 62 | 43 |
| Min.. | 32 | 38 | .... | .... | .... | .... | 118 | 126 | 89 | 37 | 22 | 17 |
| Acre-ft. | 2790 | 2850 | .... | .... | .... | .... | 11230 | 26120 | 25180 | 3860 | 2250 | 1530 |

Total run-off for period=75,810 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Platte River Near Northgate, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|-------|-------|-------|-------|------|------|-------|
| 1.... | 100 | 141 | 145 | 114 | 89 | 80 | 620 | 1190 | 1500 | 194 | 190 | 51 |
| 2.... | 144 | 166 | 149 | 110 | 86 | 82 | 665 | 1200 | 1670 | 194 | 242 | 51 |
| 3.... | 141 | 173 | 140 | 107 | 82 | 80 | 942 | 1240 | 1460 | 180 | 213 | 45 |
| 4.... | 147 | 173 | 140 | 106 | 80 | 82 | 986 | 1310 | 1100 | 156 | 180 | 32 |
| 5.... | 153 | 166 | 130 | 118 | 74 | 83 | 1080 | 1210 | 942 | 147 | 159 | 26 |
| 6.... | 170 | 93 | 138 | 105 | 78 | 81 | 865 | 1140 | 1040 | 129 | 150 | 29 |
| 7.... | 116 | 82 | 140 | 102 | 82 | 81 | 740 | 1100 | 975 | 116 | 163 | 38 |
| 8.... | 180 | 110 | 140 | 95 | 84 | 84 | 620 | 898 | 843 | 110 | 176 | 74 |
| 9.... | 183 | 160 | 139 | 100 | 82 | 86 | 596 | 692 | 740 | 105 | 150 | 110 |
| 10.... | 187 | 166 | 140 | 98 | 88 | 92 | 612 | 556 | 800 | 98 | 135 | 98 |
| 11.... | 187 | 150 | 138 | 100 | 87 | 100 | 533 | 596 | 760 | 89 | 123 | 98 |
| 12.... | 173 | 123 | 135 | 103 | 85 | 95 | 512 | 596 | 588 | 87 | 118 | 89 |
| 13.... | 166 | 110 | 127 | 95 | 83 | 100 | 540 | 588 | 498 | 87 | 110 | 103 |
| 14.... | 156 | 110 | 134 | 91 | 82 | 110 | 638 | 533 | 491 | 76 | 105 | 113 |
| 15.... | 150 | 116 | 139 | 90 | 86 | 105 | 720 | 458 | 526 | 85 | 100 | 103 |
| 16.... | 141 | 111 | 140 | 93 | 85 | 110 | 730 | 498 | 491 | 91 | 93 | 89 |
| 17.... | 144 | 111 | 132 | 90 | 85 | 130 | 701 | 580 | 407 | 103 | 91 | 89 |
| 18.... | 147 | 111 | 140 | 91 | 79 | 150 | 647 | 612 | 369 | 89 | 85 | 82 |
| 19.... | 150 | 122 | 132 | 96 | 79 | 170 | 464 | 638 | 339 | 85 | 78 | 70 |
| 20.... | 147 | 130 | 140 | 94 | 84 | 205 | 417 | 730 | 320 | 82 | 74 | 68 |
| 21.... | 141 | 130 | 132 | 96 | 80 | 250 | 470 | 832 | 288 | 74 | 72 | 66 |
| 22.... | 138 | 100 | 130 | 86 | 81 | 300 | 526 | 887 | 284 | 68 | 72 | 66 |
| 23.... | 135 | 108 | 124 | 88 | 79 | 400 | 740 | 832 | 275 | 64 | 66 | 70 |
| 24.... | 138 | 116 | 121 | 92 | 78 | 490 | 975 | 942 | 258 | 64 | 62 | 74 |
| 25.... | 132 | 112 | 120 | 95 | 82 | 640 | 860 | 1060 | 246 | 62 | 54 | 89 |
| 26.... | 132 | 106 | 110 | 90 | 80 | 910 | 800 | 1050 | 250 | 60 | 53 | 91 |
| 27.... | 138 | 105 | 100 | 88 | 79 | 1100 | 825 | 920 | 242 | 66 | 51 | 85 |
| 28.... | 138 | 122 | 110 | 90 | 80 | 1200 | 975 | 770 | 219 | 82 | 54 | 87 |
| 29.... | 138 | 130 | 114 | 92 | .... | 1000 | 1040 | 701 | 201 | 108 | 51 | 93 |
| 30.... | 135 | 138 | 110 | 92 | .... | 750 | 1110 | 843 | 190 | 132 | 51 | 103 |
| 31.... | 132 | .... | 110 | 90 | .... | 580 | .... | 1240 | .... | 166 | 53 | .... |
| Total | 4695 | 3791 | 4039 | 2987 | 2299 | 9726 | 22009 | 26442 | 18312 | 3249 | 3374 | 2282 |
| Mean. | 151 | 126 | 130 | 96.4 | 82.1 | 314 | 734 | 853 | 610 | 105 | 109 | 76.1 |
| Max. | 187 | 173 | 149 | 114 | 89 | 1200 | 1110 | 1310 | 1670 | 194 | 242 | 113 |
| Min. | 132 | 82 | 100 | 86 | 74 | 80 | 464 | 458 | 190 | 60 | 51 | 26 |
| Acre-ft. | 9310 | 7520 | 8010 | 5920 | 4560 | 19290 | 43650 | 52450 | 36320 | 6440 | 6690 | 4530 |

Total run-off for water year 1938-39=204,700 acre-feet.

Discharge of North Platte River Near Northgate, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|-------|-------|-------|-------|-------|------|-------|
| 1.... | 98 | 132 | 110 | 90 | 62 | 86 | 560 | 301 | 931 | 250 | 126 | 76 |
| 2.... | 93 | 132 | 115 | 86 | 62 | 84 | 620 | 246 | 1010 | 339 | 113 | 68 |
| 3.... | 87 | 132 | 120 | 78 | 62 | 88 | 470 | 219 | 1060 | 324 | 103 | 60 |
| 4.... | 87 | 129 | 120 | 76 | 62 | 92 | 407 | 219 | 1120 | 396 | 100 | 56 |
| 5.... | 91 | 129 | 120 | 74 | 62 | 88 | 380 | 258 | 1120 | 348 | 91 | 51 |
| 6.... | 105 | 126 | 130 | 72 | 62 | 86 | 380 | 306 | 1140 | 306 | 89 | 51 |
| 7.... | 105 | 135 | 120 | 66 | 64 | 90 | 363 | 324 | 1560 | 262 | 89 | 51 |
| 8.... | 105 | 135 | 120 | 58 | 64 | 90 | 334 | 324 | 1160 | 240 | 91 | 49 |
| 9.... | 116 | 129 | 130 | 60 | 66 | 90 | 315 | 301 | 854 | 220 | 91 | 45 |
| 10.... | 135 | 110 | 130 | 66 | 66 | 90 | 310 | 301 | 701 | 200 | 89 | 64 |
| 11.... | 144 | 91 | 130 | 64 | 64 | 88 | 297 | 334 | 588 | 170 | 91 | 85 |
| 12.... | 144 | 100 | 120 | 62 | 60 | 86 | 266 | 374 | 477 | 150 | 93 | 80 |
| 13.... | 141 | 132 | 110 | 62 | 62 | 82 | 258 | 512 | 464 | 132 | 82 | 68 |
| 14.... | 138 | 141 | 105 | 62 | 66 | 90 | 288 | 750 | 519 | 121 | 74 | 64 |
| 15.... | 132 | 116 | 120 | 62 | 72 | 94 | 374 | 647 | 629 | 113 | 70 | 64 |
| 16.... | 129 | 114 | 110 | 64 | 70 | 82 | 453 | 526 | 674 | 110 | 70 | 64 |
| 17.... | 126 | 114 | 115 | 68 | 70 | 94 | 447 | 588 | 610 | 108 | 70 | 62 |
| 18.... | 123 | 110 | 90 | 66 | 66 | 82 | 358 | 720 | 550 | 118 | 66 | 60 |
| 19.... | 121 | 105 | 96 | 62 | 66 | 86 | 334 | 520 | 490 | 156 | 62 | 58 |
| 20.... | 116 | 110 | 98 | 60 | 66 | 92 | 353 | 498 | 540 | 183 | 58 | 64 |
| 21.... | 116 | 105 | 86 | 62 | 68 | 110 | 358 | 720 | 710 | 173 | 60 | 76 |
| 22.... | 116 | 105 | 90 | 62 | 68 | 150 | 353 | 1190 | 670 | 147 | 64 | 87 |
| 23.... | 116 | 110 | 90 | 60 | 66 | 190 | 334 | 740 | 588 | 141 | 66 | 93 |
| 24.... | 116 | 115 | 96 | 60 | 68 | 240 | 279 | 491 | 477 | 126 | 66 | 89 |
| 25.... | 113 | 110 | 86 | 62 | 70 | 280 | 344 | 401 | 374 | 118 | 82 | 87 |
| 26.... | 108 | 100 | 82 | 64 | 74 | 320 | 412 | 396 | 310 | 113 | 91 | 89 |
| 27.... | 105 | 105 | 78 | 66 | 78 | 398 | 380 | 540 | 266 | 105 | 100 | 87 |
| 28.... | 108 | 105 | 80 | 68 | 84 | 440 | 396 | 986 | 238 | 103 | 113 | 87 |
| 29.... | 121 | 115 | 84 | 68 | 88 | 470 | 412 | 1050 | 201 | 116 | 108 | 91 |
| 30.... | 123 | 110 | 86 | 68 | .... | 480 | 358 | 1010 | 183 | 126 | 98 | 108 |
| 31.... | 129 | .... | 88 | 64 | .... | 510 | .... | 898 | .... | 129 | 85 | .... |
| Total | 3607 | 3502 | 3255 | 2062 | 1958 | 5348 | 11193 | 16742 | 20214 | 5643 | 2651 | 2134 |
| Mean. | 116 | 117 | 105 | 66.5 | 67.5 | 173 | 373 | 540 | 674 | 182 | 85.5 | 71.1 |
| Max. | 144 | 141 | 130 | 90 | 88 | 510 | 620 | 1190 | 1560 | 396 | 126 | 108 |
| Min. | 87 | 91 | 78 | 58 | 60 | 82 | 258 | 219 | 183 | 103 | 58 | 45 |
| Acre-ft. | 7150 | 6950 | 6460 | 4090 | 3880 | 10610 | 22200 | 33210 | 40090 | 11190 | 5260 | 4230 |

Total run-off for water year 1939-40=155,300 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of North Fork of North Platte River Near Walden, Colo., for Year Ending
Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|--------|-------|-------|-------|-------|-------------------|--------|-------|------|------|-------|
| 1.... | 39 | 40 | ..... | ..... | ..... | ..... | ..... | 127 | 215 | 27 | 147 | 39 |
| 2.... | 39 | 48 | ..... | ..... | ..... | ..... | ..... | 134 | 162 | 32 | 132 | 26 |
| 3.... | 39 | 44 | ..... | ..... | ..... | ..... | ..... | 152 | 92 | 28 | 110 | 16 |
| 4.... | 37 | 41 | ..... | ..... | ..... | ..... | ..... | 144 | 71 | 22 | 84 | 18 |
| 5.... | 37 | ..... | ..... | ..... | ..... | ..... | ..... | 107 | 82 | 22 | 77 | 23 |
| 6.... | 43 | ..... | ..... | ..... | ..... | ..... | ..... | 84 | 107 | 20 | 75 | 21 |
| 7.... | 47 | ..... | ..... | ..... | ..... | ..... | ..... | 56 | 104 | 18 | 104 | 61 |
| 8.... | 44 | ..... | ..... | ..... | ..... | ..... | ..... | 44 | 87 | 16 | 94 | 80 |
| 9.... | 42 | ..... | ..... | ..... | ..... | ..... | ..... | 31 | 77 | 16 | 69 | 59 |
| 10.... | 41 | ..... | ..... | ..... | ..... | ..... | ..... | 14 | 150 | 16 | 61 | 47 |
| 11.... | 40 | ..... | ..... | ..... | ..... | ..... | ..... | 9.7 | 69 | 12 | 63 | 44 |
| 12.... | 38 | ..... | ..... | ..... | ..... | ..... | ..... | 8.1 | 47 | 12 | 57 | 49 |
| 13.... | 37 | ..... | ..... | ..... | ..... | ..... | ..... | 13 | 33 | 11 | 54 | 49 |
| 14.... | 37 | ..... | ..... | ..... | ..... | ..... | ..... | 26 | 51 | 22 | 51 | 47 |
| 15.... | 32 | ..... | ..... | ..... | ..... | ..... | ..... | 9.1 | 82 | 32 | 50 | 42 |
| 16.... | 32 | ..... | ..... | ..... | ..... | ..... | ..... | 6.9 | 56 | 36 | 49 | 41 |
| 17.... | 32 | ..... | ..... | ..... | ..... | ..... | April 18 to 30 | 9.7 | 44 | 41 | 46 | 43 |
| 18.... | 32 | ..... | ..... | ..... | ..... | ..... | 59 | 9.4 | 50 | 29 | 44 | 43 |
| 19.... | 33 | ..... | ..... | ..... | ..... | ..... | 59 | 13 | 49 | 27 | 42 | 38 |
| 20.... | 29 | ..... | ..... | ..... | ..... | ..... | 61 | 18 | 44 | 32 | 42 | 37 |
| 21.... | 32 | ..... | ..... | ..... | ..... | ..... | 69 | 31 | 39 | 25 | 43 | 35 |
| 22.... | 32 | ..... | ..... | ..... | ..... | ..... | 107 | 30 | 40 | 28 | 39 | 36 |
| 23.... | 33 | ..... | ..... | ..... | ..... | ..... | 132 | 24 | 29 | 33 | 35 | 39 |
| 24.... | 33 | ..... | ..... | ..... | ..... | ..... | 110 | 29 | 26 | 34 | 35 | 42 |
| 25.... | 34 | ..... | ..... | ..... | ..... | ..... | 97 | 53 | 30 | 32 | 32 | 42 |
| 26.... | 34 | ..... | ..... | ..... | ..... | ..... | 90 | 43 | 37 | 37 | 32 | 41 |
| 27.... | 36 | ..... | ..... | ..... | ..... | ..... | 84 | 25 | 36 | 49 | 32 | 44 |
| 28.... | 39 | ..... | ..... | ..... | ..... | ..... | 92 | 21 | 27 | 63 | 33 | 42 |
| 29.... | 38 | ..... | ..... | ..... | ..... | ..... | 104 | 22 | 25 | 80 | 33 | 42 |
| 30.... | 37 | Nov. 1 | ..... | ..... | ..... | ..... | 117 | 56 | 25 | 127 | 32 | 43 |
| 31.... | 37 | to 4 | ..... | ..... | ..... | ..... | ..... | 154 | ..... | 124 | 31 | ..... |
| Total | 1135 | 173 | ..... | ..... | ..... | ..... | 1181 | 1503.8 | 1986 | 1103 | 1828 | 1220 |
| Mean. | 36.6 | 43.2 | ..... | ..... | ..... | ..... | 90.8 | 48.5 | 66.2 | 35.6 | 59.0 | 40.7 |
| Max.. | 47 | 48 | ..... | ..... | ..... | ..... | 132 | 154 | 215 | 127 | 147 | 80 |
| Min.. | 29 | 40 | ..... | ..... | ..... | ..... | 59 | 6.8 | 25 | 11 | 31 | 16 |
| Acre-ft. | 2250 | 343 | ..... | ..... | ..... | ..... | 2340 | 2980 | 3940 | 2190 | 3630 | 2420 |

Total run-off for water year 1938-39=20,093 acre-feet.

**Discharge of North Fork North Platte River Near Walden, Colorado, for Year Ending
Sept. 30, 1940**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|-------|--------|-------|------|------|-------|
| 1.... | 39 | 66 | ..... | ..... | ..... | ..... | 110 | 22 | 72 | 132 | 39 | 33 |
| 2.... | 44 | 66 | ..... | ..... | ..... | ..... | 120 | 15 | 96 | 96 | 35 | 31 |
| 3.... | 46 | 58 | ..... | ..... | ..... | ..... | 110 | 12 | 116 | 132 | 34 | 30 |
| 4.... | 52 | 58 | ..... | ..... | ..... | ..... | 100 | 4.8 | 118 | 132 | 32 | 33 |
| 5.... | 66 | 58 | ..... | ..... | ..... | ..... | 90 | 4.2 | 116 | 64 | 34 | 33 |
| 6.... | 60 | 74 | ..... | ..... | ..... | ..... | 85 | 3.8 | 132 | 41 | 44 | 28 |
| 7.... | 60 | 76 | ..... | ..... | ..... | ..... | 80 | 3.5 | 213 | 37 | 44 | 36 |
| 8.... | 70 | 64 | ..... | ..... | ..... | ..... | 74 | 2.8 | 76 | 36 | 44 | 24 |
| 9.... | 85 | 64 | ..... | ..... | ..... | ..... | 60 | 6.3 | 64 | 24 | 44 | 31 |
| 10.... | 81 | 58 | ..... | ..... | ..... | ..... | 72 | 4.5 | 58 | 20 | 44 | 41 |
| 11.... | 79 | ..... | ..... | ..... | ..... | ..... | 66 | 5.1 | 49 | 18 | 44 | 38 |
| 12.... | 76 | ..... | ..... | ..... | ..... | ..... | 56 | 7.5 | 33 | 21 | 44 | 33 |
| 13.... | 74 | ..... | ..... | ..... | ..... | ..... | 70 | 41 | 37 | 22 | 42 | 30 |
| 14.... | 72 | ..... | ..... | ..... | ..... | ..... | 147 | 22 | 52 | 20 | 40 | 27 |
| 15.... | 68 | ..... | ..... | ..... | ..... | ..... | 182 | 12 | 85 | 20 | 38 | 27 |
| 16.... | 63 | ..... | ..... | ..... | ..... | ..... | 176 | 18 | 120 | 24 | 36 | 25 |
| 17.... | 62 | ..... | ..... | ..... | ..... | ..... | 116 | 32 | 99 | 21 | 36 | 24 |
| 18.... | 60 | ..... | ..... | ..... | ..... | ..... | 94 | 29 | 96 | 39 | 34 | 25 |
| 19.... | 58 | ..... | ..... | ..... | ..... | ..... | 140 | 27 | 76 | 87 | 34 | 26 |
| 20.... | 56 | ..... | ..... | ..... | ..... | ..... | 147 | 26 | 72 | 81 | 34 | 28 |
| 21.... | 56 | ..... | ..... | ..... | ..... | ..... | 81 | 223 | 176 | 68 | 36 | 30 |
| 22.... | 58 | ..... | ..... | ..... | ..... | ..... | 64 | 213 | 179 | 52 | 37 | 34 |
| 23.... | 58 | ..... | ..... | ..... | ..... | ..... | 38 | 66 | 125 | 51 | 38 | 33 |
| 24.... | 56 | ..... | ..... | ..... | ..... | ..... | 44 | 33 | 68 | 49 | 42 | 30 |
| 25.... | 52 | ..... | ..... | ..... | ..... | ..... | 171 | 22 | 48 | 49 | 51 | 33 |
| 26.... | 52 | ..... | ..... | ..... | ..... | ..... | 137 | 25 | 38 | 46 | 52 | 32 |
| 27.... | 56 | ..... | ..... | ..... | ..... | ..... | 66 | 48 | 37 | 48 | 58 | 33 |
| 28.... | 56 | ..... | ..... | ..... | ..... | ..... | 42 | 116 | 33 | 49 | 49 | 33 |
| 29.... | 56 | ..... | ..... | ..... | ..... | ..... | 42 | 99 | 27 | 49 | 37 | 34 |
| 30.... | 66 | ..... | ..... | ..... | ..... | ..... | 44 | 74 | 35 | 49 | 36 | 44 |
| 31.... | 68 | ..... | ..... | ..... | ..... | ..... | ..... | 79 | ..... | 46 | 36 | ..... |
| Total | 1914 | 642 | ..... | ..... | ..... | ..... | 2824 | 1296.5 | 2546 | 1623 | 1248 | 939 |
| Mean. | 61.7 | 64.2 | ..... | ..... | ..... | ..... | 94.1 | 41.8 | 84.9 | 52.4 | 40.3 | 31.3 |
| Max.. | 85 | 76 | ..... | ..... | ..... | ..... | 182 | 223 | 213 | 132 | 58 | 44 |
| Min.. | 39 | 58 | ..... | ..... | ..... | ..... | 38 | 2.8 | 27 | 18 | 32 | 24 |
| Acre-ft. | 3800 | 1270 | ..... | ..... | ..... | ..... | 5600 | 2570 | 5050 | 3220 | 2480 | 1860 |

Total run-off for period=25,850 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Willow Creek Near Rand, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|-------|--------|-------|-------|-------|-------|-------|------|-------|-------|------|-------|
| 1.... | 4.3 | 5.0 | ..... | ..... | ..... | ..... | ..... | 24 | 91 | 11 | 3.6 | 2.8 |
| 2.... | 4.3 | 5.5 | ..... | ..... | ..... | ..... | ..... | 25 | 87 | 8.4 | 3.4 | 2.8 |
| 3.... | 4.3 | 5.8 | ..... | ..... | ..... | ..... | ..... | 28 | 46 | 6.8 | 3.0 | 1.8 |
| 4.... | 3.8 | 6.0 | ..... | ..... | ..... | ..... | ..... | 29 | 34 | 5.0 | 3.0 | 1.6 |
| 5.... | 4.1 | 6.3 | ..... | ..... | ..... | ..... | ..... | 20 | 39 | 4.4 | 2.6 | 1.8 |
| 6.... | 4.6 | 6.3 | ..... | ..... | ..... | ..... | ..... | 20 | 32 | 3.9 | 2.8 | 2.2 |
| 7.... | 4.6 | ..... | ..... | ..... | ..... | ..... | ..... | 24 | 26 | 3.7 | 8.7 | 3.8 |
| 8.... | 4.1 | ..... | ..... | ..... | ..... | ..... | ..... | 23 | 24 | 3.5 | 7.2 | 4.3 |
| 9.... | 5.0 | ..... | ..... | ..... | ..... | ..... | ..... | 17 | 22 | 3.5 | 3.8 | 3.6 |
| 10.... | 5.0 | ..... | ..... | ..... | ..... | ..... | ..... | 16 | 31 | 3.4 | 3.6 | 3.4 |
| 11.... | 4.6 | ..... | ..... | ..... | ..... | ..... | ..... | 19 | 19 | 3.2 | 3.2 | 3.4 |
| 12.... | 4.6 | ..... | ..... | ..... | ..... | ..... | ..... | 27 | 16 | 5.0 | 2.8 | 3.2 |
| 13.... | 4.8 | ..... | ..... | ..... | ..... | ..... | ..... | 37 | 16 | 3.4 | 2.2 | 2.8 |
| 14.... | 5.3 | ..... | ..... | ..... | ..... | ..... | ..... | 23 | 16 | 1.6 | 2.2 | 2.2 |
| 15.... | 4.8 | ..... | ..... | ..... | ..... | ..... | ..... | 18 | 16 | 1.3 | 1.8 | 1.8 |
| 16.... | 5.0 | ..... | ..... | ..... | ..... | ..... | ..... | 24 | 14 | 1.8 | 1.5 | 1.6 |
| 17.... | 5.0 | ..... | ..... | ..... | ..... | ..... | ..... | 16 | 32 | 11 | 2.6 | 1.4 |
| 18.... | 5.3 | ..... | ..... | ..... | ..... | ..... | ..... | 20 | 28 | 12 | 2.4 | 1.4 |
| 19.... | 5.5 | ..... | ..... | ..... | ..... | ..... | ..... | 20 | 34 | 13 | 0.9 | 1.3 |
| 20.... | 5.8 | ..... | ..... | ..... | ..... | ..... | ..... | 18 | 49 | 11 | 0.1 | 1.2 |
| 21.... | 5.3 | ..... | ..... | ..... | ..... | ..... | ..... | 18 | 58 | 10 | 0.8 | 1.3 |
| 22.... | 5.8 | ..... | ..... | ..... | ..... | ..... | ..... | 34 | 56 | 9.0 | 7.8 | 2.0 |
| 23.... | 4.6 | ..... | ..... | ..... | ..... | ..... | ..... | 42 | 65 | 8.0 | 4.6 | 2.4 |
| 24.... | 4.3 | ..... | ..... | ..... | ..... | ..... | ..... | 33 | 67 | 7.6 | 4.1 | 2.6 |
| 25.... | 5.5 | ..... | ..... | ..... | ..... | ..... | ..... | 30 | 89 | 8.5 | 12 | 1.5 |
| 26.... | 5.3 | ..... | ..... | ..... | ..... | ..... | ..... | 27 | 72 | 7.8 | 6.3 | 1.5 |
| 27.... | 5.5 | ..... | ..... | ..... | ..... | ..... | ..... | 18 | 47 | 7.4 | 1.1 | 1.5 |
| 28.... | 5.5 | ..... | ..... | ..... | ..... | ..... | ..... | 22 | 34 | 7.2 | 1.2 | 1.5 |
| 29.... | 5.0 | ..... | ..... | ..... | ..... | ..... | ..... | 22 | 30 | 7.6 | 1.3 | 2.0 |
| 30.... | 4.6 | Nov. 1 | ..... | ..... | ..... | ..... | ..... | 24 | 31 | 8.4 | 1.4 | 2.6 |
| 31.... | 5.3 | to 6 | ..... | ..... | ..... | ..... | ..... | 65 | ..... | 2.6 | 3.2 | ..... |
| Total | 151.5 | 34.9 | ..... | ..... | ..... | ..... | 344 | 1131 | 657.5 | 119.1 | 79.7 | 76.3 |
| Mean.. | 4.89 | 5.82 | ..... | ..... | ..... | ..... | 24.6 | 36.5 | 21.9 | 3.84 | 2.57 | 2.54 |
| Max.. | 5.8 | 6.3 | ..... | ..... | ..... | ..... | 42 | 89 | 91 | 12 | 8.7 | 4.3 |
| Min.. | 3.8 | 5.0 | ..... | ..... | ..... | ..... | 16 | 16 | 7.2 | 0.1 | 1.2 | 1.5 |
| Acree-ft. | 300 | 69 | ..... | ..... | ..... | ..... | 682 | 2240 | 1300 | 236 | 158 | 151 |

Total run-off for water year 1938-39=5,136 acre-feet.

Discharge of Willow Creek Near Rand, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| 1.... | 4.1 | 3.6 | ..... | ..... | ..... | ..... | 11 | 5.8 | 9.9 | 3.8 | 1.5 | 1.0 |
| 2.... | 4.1 | 3.4 | ..... | ..... | ..... | ..... | 10 | 6.5 | 9.9 | 5.0 | 1.3 | .8 |
| 3.... | 3.6 | 3.2 | ..... | ..... | ..... | ..... | 9.5 | 4.0 | 14 | 4.8 | 1.4 | .9 |
| 4.... | 3.6 | 3.2 | ..... | ..... | ..... | ..... | 9.0 | 2.4 | 19 | 3.6 | 1.2 | 1.1 |
| 5.... | 3.4 | 3.2 | ..... | ..... | ..... | ..... | 8.5 | 2.3 | 12 | 3.2 | 1.1 | 1.0 |
| 6.... | 2.6 | 3.2 | ..... | ..... | ..... | ..... | 8.0 | 2.0 | 28 | 4.6 | 1.1 | .9 |
| 7.... | 1.3 | 2.6 | ..... | ..... | ..... | ..... | 7.5 | 1.5 | 64 | 2.6 | 1.3 | .8 |
| 8.... | 2.0 | 1.3 | ..... | ..... | ..... | ..... | 7.6 | 1.7 | 16 | 1.6 | 1.4 | 1.0 |
| 9.... | 2.4 | 1.3 | ..... | ..... | ..... | ..... | 7.8 | 2.0 | 10 | 1.0 | 1.4 | 1.1 |
| 10.... | 2.6 | 1.3 | ..... | ..... | ..... | ..... | 8.5 | 2.2 | 10 | .7 | 1.4 | 1.0 |
| 11.... | 2.6 | 1.3 | ..... | ..... | ..... | ..... | 8.0 | 1.9 | 9.0 | .6 | 1.3 | 1.0 |
| 12.... | 2.6 | ..... | ..... | ..... | ..... | ..... | 7.0 | 1.9 | 8.1 | .5 | 1.1 | 1.0 |
| 13.... | 2.2 | ..... | ..... | ..... | ..... | ..... | 6.0 | 4.0 | 7.2 | .5 | 1.0 | .6 |
| 14.... | 1.6 | ..... | ..... | ..... | ..... | ..... | 5.0 | 4.2 | 6.5 | .5 | 1.2 | .6 |
| 15.... | 1.6 | ..... | ..... | ..... | ..... | ..... | 10 | 2.9 | 17 | .4 | 1.1 | .5 |
| 16.... | 1.6 | ..... | ..... | ..... | ..... | ..... | 27 | 3.2 | 24 | .3 | 1.1 | .5 |
| 17.... | 1.6 | ..... | ..... | ..... | ..... | ..... | 22 | 4.0 | 12 | 4.6 | 1.2 | .6 |
| 18.... | 1.6 | ..... | ..... | ..... | ..... | ..... | 22 | 5.0 | 5.5 | 9.9 | 1.2 | .9 |
| 19.... | 1.8 | ..... | ..... | ..... | ..... | ..... | 24 | 3.6 | 3.4 | 8.4 | 1.1 | 1.0 |
| 20.... | 2.0 | ..... | ..... | ..... | ..... | ..... | 23 | 4.2 | 2.6 | 4.0 | 1.2 | 1.1 |
| 21.... | 2.0 | ..... | ..... | ..... | ..... | ..... | 16 | 33 | 2.6 | 2.4 | 1.3 | 1.2 |
| 22.... | 2.0 | ..... | ..... | ..... | ..... | ..... | 8.7 | 22 | 2.9 | 2.2 | 1.5 | 1.3 |
| 23.... | 2.0 | ..... | ..... | ..... | ..... | ..... | 4.0 | 7.8 | 3.2 | 1.5 | 1.5 | 1.3 |
| 24.... | 1.6 | ..... | ..... | ..... | ..... | ..... | 3.0 | 6.8 | 2.7 | 1.6 | 1.5 | 1.3 |
| 25.... | 2.4 | ..... | ..... | ..... | ..... | ..... | 4.6 | 6.0 | 2.3 | 1.6 | 2.7 | 1.3 |
| 26.... | 2.2 | ..... | ..... | ..... | ..... | ..... | 3.4 | 7.2 | 1.9 | 1.4 | 3.2 | 1.3 |
| 27.... | 2.0 | ..... | ..... | ..... | ..... | ..... | 2.3 | 24 | 1.4 | 1.3 | 3.4 | 1.3 |
| 28.... | 1.8 | ..... | ..... | ..... | ..... | ..... | 3.6 | 28 | 1.1 | 1.2 | 3.2 | 1.4 |
| 29.... | 1.8 | ..... | ..... | ..... | ..... | ..... | 4.0 | 14 | .9 | 1.4 | 2.0 | 1.5 |
| 30.... | 2.0 | ..... | ..... | ..... | ..... | ..... | 3.6 | 16 | 1.2 | 1.4 | 1.5 | 1.4 |
| 31.... | 3.0 | ..... | ..... | ..... | ..... | ..... | ..... | 11 | ..... | 1.5 | 1.2 | ..... |
| Total | 72.2 | 27.6 | ..... | ..... | ..... | ..... | 294.6 | 241.1 | 308.3 | 78.1 | 47.6 | 30.7 |
| Mean.. | 2.33 | 2.51 | ..... | ..... | ..... | ..... | 9.82 | 7.78 | 10.3 | 2.52 | 1.54 | 1.02 |
| Max.. | 4.1 | 3.6 | ..... | ..... | ..... | ..... | 27 | 33 | 64 | 9.9 | 3.4 | 1.5 |
| Min.. | 1.6 | 1.3 | ..... | ..... | ..... | ..... | 2.3 | 1.5 | .9 | .3 | 1.0 | .5 |
| Acree-ft. | 143 | 55 | ..... | ..... | ..... | ..... | 584 | 478 | 612 | 155 | 94 | 61 |

Total run-off for period=2,180 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Illinois Creek Near Rand, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | |
|----------|-------|--------|------|------|------|------|----------|-------|------|-------|-------|-------|-----|
| 1.... | 10 | 6.5 | .... | .... | .... | .... | .... | 160 | 251 | 46 | 10 | 3.7 | |
| 2.... | 9.5 | 7.0 | .... | .... | .... | .... | .... | 160 | 228 | 38 | 8.0 | 3.7 | |
| 3.... | 10 | 8.0 | .... | .... | .... | .... | .... | 213 | 179 | 30 | 6.0 | 3.2 | |
| 4.... | 9.5 | .... | .... | .... | .... | .... | .... | 210 | 190 | 21 | 5.5 | 3.0 | |
| 5.... | 9.5 | .... | .... | .... | .... | .... | .... | 204 | 238 | 18 | 4.8 | 3.2 | |
| 6.... | 9.5 | .... | .... | .... | .... | .... | .... | 233 | 257 | 17 | 5.0 | 3.9 | |
| 7.... | 9.5 | .... | .... | .... | .... | .... | .... | 190 | 246 | 17 | 11 | 4.6 | |
| 8.... | 9.5 | .... | .... | .... | .... | .... | .... | 148 | 213 | 16 | 12 | 4.8 | |
| 9.... | 10 | .... | .... | .... | .... | .... | .... | 160 | 194 | 16 | 10 | 4.1 | |
| 10.... | 11 | .... | .... | .... | .... | .... | .... | 154 | 160 | 17 | 9.0 | 3.7 | |
| 11.... | 9.5 | .... | .... | .... | .... | .... | .... | 183 | 118 | 16 | 7.5 | 3.2 | |
| 12.... | 9.5 | .... | .... | .... | .... | .... | .... | 175 | 87 | 15 | 6.5 | 3.7 | |
| 13.... | 10 | .... | .... | .... | .... | .... | .... | 130 | 82 | 14 | 5.5 | 3.7 | |
| 14.... | 10 | .... | .... | .... | .... | .... | .... | 136 | 91 | 14 | 5.0 | 3.5 | |
| 15.... | 8.5 | .... | .... | .... | .... | .... | .... | 106 | 118 | 13 | 4.6 | 3.2 | |
| 16.... | 8.5 | .... | .... | .... | .... | .... | April 17 | 207 | 100 | 11 | 4.6 | 3.2 | |
| 17.... | 8.5 | | | | | | to 30 | 16 | 201 | 82 | 10 | 4.6 | 3.2 |
| 18.... | 8.5 | | | | | | 16 | 20 | 204 | 82 | 11 | 4.1 | 3.0 |
| 19.... | 8.5 | .... | .... | .... | .... | .... | 20 | 231 | 91 | 10 | 3.7 | 3.2 | |
| 20.... | 9.0 | .... | .... | .... | .... | .... | 22 | 259 | 69 | 9.5 | 3.2 | 3.2 | |
| 21.... | 8.5 | .... | .... | .... | .... | .... | 27 | 244 | 60 | 9.0 | 3.5 | 3.0 | |
| 22.... | 8.0 | .... | .... | .... | .... | .... | 69 | 246 | 54 | 8.5 | 3.0 | 3.0 | |
| 23.... | 7.5 | .... | .... | .... | .... | .... | 164 | 262 | 41 | 7.0 | 2.6 | 3.2 | |
| 24.... | 7.0 | .... | .... | .... | .... | .... | 106 | 241 | 41 | 7.0 | 2.1 | 4.6 | |
| 25.... | 6.0 | .... | .... | .... | .... | .... | 100 | 236 | 46 | 6.5 | 1.7 | 5.5 | |
| 26.... | 7.0 | .... | .... | .... | .... | .... | 91 | 187 | 46 | 6.0 | 1.4 | 5.0 | |
| 27.... | 7.5 | .... | .... | .... | .... | .... | 118 | 136 | 36 | 8.0 | 1.9 | 4.8 | |
| 28.... | 7.5 | .... | .... | .... | .... | .... | 175 | 87 | 34 | 9.5 | 2.6 | 6.5 | |
| 29.... | 7.0 | .... | .... | .... | .... | .... | 222 | 96 | 34 | 8.5 | 3.5 | 6.5 | |
| 30.... | 6.5 | Nov. 1 | .... | .... | .... | .... | 154 | 179 | 36 | 8.0 | 4.1 | 5.5 | |
| 31.... | 6.5 | to 3 | .... | .... | .... | .... | .... | 210 | .... | 9.0 | 4.1 | .... |  |
| Total | 267.5 | 21.5 | .... | .... | .... | .... | 1304 | 5788 | 3504 | 446.5 | 161.1 | 118.6 | |
| Mean. | 8.63 | 7.17 | .... | .... | .... | .... | 93.1 | 187 | 117 | 14.4 | 5.2 | 3.95 | |
| Max.. | 11 | 8.0 | .... | .... | .... | .... | 222 | 262 | 257 | 46 | 12 | 6.5 | |
| Min.. | 6.0 | 6.5 | .... | .... | .... | .... | 16 | 87 | 34 | 6.0 | 1.4 | 3.0 | |
| Acre-ft. | 531 | 43 | .... | .... | .... | .... | 2590 | 11480 | 6950 | 886 | 320 | 235 | |

Total run-off for water year 1938-39=23,035 acre-feet.

Discharge of Illinois Creek Near Rand, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|------|------|------|------|-------|------|------|------|-------|-------|
| 1.... | 4.6 | 5.0 | .... | .... | .... | .... | 15 | 41 | 183 | 51 | 8.0 | 5.4 |
| 2.... | 4.3 | 5.0 | .... | .... | .... | .... | 13 | 60 | 190 | 78 | 6.5 | 4.2 |
| 3.... | 4.1 | 4.8 | .... | .... | .... | .... | 12 | 65 | 190 | 54 | 6.0 | 5.2 |
| 4.... | 4.3 | 4.3 | .... | .... | .... | .... | 10 | 78 | 171 | 44 | 5.0 | 4.6 |
| 5.... | 4.8 | 4.3 | .... | .... | .... | .... | 9.5 | 91 | 160 | 36 | 4.6 | 4.1 |
| 6.... | 4.8 | 5.0 | .... | .... | .... | .... | 8.5 | 112 | 160 | 48 | 4.3 | 3.7 |
| 7.... | 4.6 | 5.5 | .... | .... | .... | .... | 8.0 | 124 | 106 | 30 | 4.3 | 3.2 |
| 8.... | 4.6 | 5.5 | .... | .... | .... | .... | 7.6 | 112 | 78 | 28 | 4.6 | 2.4 |
| 9.... | 8.0 | 4.6 | .... | .... | .... | .... | 8.0 | 91 | 68 | 25 | 4.8 | 2.6 |
| 10.... | 8.0 | 5.0 | .... | .... | .... | .... | 8.5 | 74 | 41 | 23 | 4.6 | 2.8 |
| 11.... | 7.0 | 4.6 | .... | .... | .... | .... | 8.0 | 130 | 50 | 23 | 4.1 | 2.6 |
| 12.... | 6.0 | .... | .... | .... | .... | .... | 7.5 | 142 | 56 | 20 | 3.9 | 2.4 |
| 13.... | 6.0 | .... | .... | .... | .... | .... | 6.5 | 160 | 68 | 16 | 3.2 | 2.8 |
| 14.... | 5.5 | .... | .... | .... | .... | .... | 5.6 | 96 | 96 | 14 | 3.0 | 2.8 |
| 15.... | 4.8 | .... | .... | .... | .... | .... | 27 | 87 | 148 | 13 | 2.8 | 2.8 |
| 16.... | 4.8 | .... | .... | .... | .... | .... | 38 | 96 | 142 | 14 | 2.8 | 2.6 |
| 17.... | 4.8 | .... | .... | .... | .... | .... | 25 | 112 | 124 | 21 | 2.8 | 2.4 |
| 18.... | 4.8 | .... | .... | .... | .... | .... | 25 | 74 | 106 | 38 | 2.8 | 2.6 |
| 19.... | 4.8 | .... | .... | .... | .... | .... | 46 | 54 | 87 | 56 | 2.4 | 3.0 |
| 20.... | 4.8 | .... | .... | .... | .... | .... | 82 | 65 | 82 | 24 | 2.8 | 3.2 |
| 21.... | 4.6 | .... | .... | .... | .... | .... | 69 | 112 | 69 | 16 | 3.2 | 3.9 |
| 22.... | 4.6 | .... | .... | .... | .... | .... | 65 | 78 | 74 | 14 | 3.2 | 4.5 |
| 23.... | 4.3 | .... | .... | .... | .... | .... | 34 | 46 | 82 | 14 | 3.0 | 5.0 |
| 24.... | 4.3 | .... | .... | .... | .... | .... | 60 | 34 | 60 | 14 | 6.0 | 5.0 |
| 25.... | 4.3 | .... | .... | .... | .... | .... | 69 | 34 | 51 | 14 | 14 | 4.8 |
| 26.... | 4.6 | .... | .... | .... | .... | .... | 78 | 48 | 54 | 12 | 16 | 5.5 |
| 27.... | 4.8 | .... | .... | .... | .... | .... | 82 | 142 | 48 | 10 | 16 | 7.5 |
| 28.... | 4.6 | .... | .... | .... | .... | .... | 44 | 154 | 41 | 11 | 10 | 8.0 |
| 29.... | 4.3 | .... | .... | .... | .... | .... | 41 | 112 | 34 | 11 | 8.0 | 10 |
| 30.... | 4.3 | .... | .... | .... | .... | .... | 25 | 112 | 34 | 9 | 6.6 | 9.0 |
| 31.... | 4.3 | .... | .... | .... | .... | .... | .... | 154 | .... | 10 | 6.0 | .... |
| Total | 154.4 | 53.6 | .... | .... | .... | .... | 937.7 | 2890 | 2853 | 791 | 175.3 | 128.4 |
| Mean. | 4.98 | 4.87 | .... | .... | .... | .... | 31.3 | 93.2 | 95.1 | 25.5 | 5.65 | 4.28 |
| Max.. | 8.0 | 5.5 | .... | .... | .... | .... | 82 | 160 | 190 | 78 | 16 | 10 |
| Min.. | 4.1 | 4.3 | .... | .... | .... | .... | 5.6 | 34 | 34 | 9.0 | 2.4 | 2.4 |
| Acre-ft. | 306 | 106 | .... | .... | .... | .... | 1860 | 5730 | 5660 | 1570 | 248 | 255 |

Total run-off for period= 15,840 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Illinois Creek at Walden, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|--------|------|------|------|------|-------------------|------|--------|------|------|-------|
| 1.... | 5.3 | 8.8 | .... | .... | .... | .... | .... | 91 | 141 | 7.0 | 0.8 | 0 |
| 2.... | 5.0 | 10 | .... | .... | .... | .... | .... | 81 | 206 | 6.6 | 1.2 | 0 |
| 3.... | 5.3 | 8.4 | .... | .... | .... | .... | .... | 67 | 197 | 6.0 | 1.0 | 0 |
| 4.... | 5.3 | 7.0 | .... | .... | .... | .... | .... | 80 | 128 | 6.0 | 0.7 | 0 |
| 5.... | 6.0 | 7.5 | .... | .... | .... | .... | .... | 82 | 87 | 6.0 | 0.6 | 0 |
| 6.... | 9.7 | 8.4 | .... | .... | .... | .... | .... | 77 | 70 | 6.3 | 0.8 | 0 |
| 7.... | 9.7 | 5.6 | .... | .... | .... | .... | .... | 88 | 75 | 5.6 | 2.1 | 0.4 |
| 8.... | 8.4 | 5.0 | .... | .... | .... | .... | .... | 82 | 73 | 4.0 | 2.7 | 0.4 |
| 9.... | 8.8 | 5.3 | .... | .... | .... | .... | .... | 61 | 71 | 3.4 | 2.7 | 0.2 |
| 10.... | 12 | 5.3 | .... | .... | .... | .... | .... | 35 | 75 | 3.0 | 3.7 | 0.2 |
| 11.... | 14 | .... | .... | .... | .... | .... | .... | 27 | 73 | 2.3 | 3.7 | 0.2 |
| 12.... | 14 | .... | .... | .... | .... | .... | .... | 16 | 62 | 1.9 | 2.5 | 0.2 |
| 13.... | 13 | .... | .... | .... | .... | .... | .... | 15 | 44 | 2.3 | 2.1 | 0.2 |
| 14.... | 10 | .... | .... | .... | .... | .... | .... | 15 | 33 | 1.9 | 1.4 | 0.1 |
| 15.... | 8.8 | .... | .... | .... | .... | .... | .... | 19 | 24 | 1.9 | 0.8 | 0 |
| 16.... | 8.8 | .... | .... | .... | .... | .... | .... | 22 | 18 | 1.6 | 0.5 | 0.1 |
| 17.... | 8.8 | .... | .... | .... | .... | .... | April 18 to 30 | 72 | 15 | 1.4 | 0.4 | 0.1 |
| 18.... | 8.8 | .... | .... | .... | .... | .... | 65 | 101 | 14 | 1.2 | 0.1 | 0 |
| 19.... | 8.8 | .... | .... | .... | .... | .... | 63 | 73 | 15 | 1.0 | 0.1 | 0.1 |
| 20.... | 7.9 | .... | .... | .... | .... | .... | 70 | 67 | 16 | 0.8 | 0.1 | 0 |
| 21.... | 6.3 | .... | .... | .... | .... | .... | 70 | 101 | 13 | 0.7 | 0 | 0.1 |
| 22.... | 5.6 | .... | .... | .... | .... | .... | 84 | 124 | 12 | 0.6 | 0 | 0.1 |
| 23.... | 6.6 | .... | .... | .... | .... | .... | 113 | 114 | 12 | 0.6 | 0 | 0.1 |
| 24.... | 7.5 | .... | .... | .... | .... | .... | 120 | 131 | 12 | 0.7 | 0.1 | 0 |
| 25.... | 7.9 | .... | .... | .... | .... | .... | 99 | 155 | 11 | 0.7 | 0 | 0 |
| 26.... | 7.9 | .... | .... | .... | .... | .... | 72 | 176 | 11 | 0.7 | 0.1 | 0 |
| 27.... | 8.4 | .... | .... | .... | .... | .... | 70 | 158 | 10 | 0.7 | 0 | 0 |
| 28.... | 7.9 | .... | .... | .... | .... | .... | 67 | 120 | 8.8 | 0.6 | 0 | 0.2 |
| 29.... | 7.9 | .... | .... | .... | .... | .... | 72 | 91 | 7.5 | 0.6 | 0.4 | 0.2 |
| 30.... | 7.5 | Nov. 1 | .... | .... | .... | .... | 82 | 77 | 6.6 | 0.6 | 0.1 | 0.1 |
| 31.... | 7.9 | to 10 | .... | .... | .... | .... | 82 | 83 | .... | 0.7 | 0.1 | .... |
| Total | 259.8 | 71.3 | .... | .... | .... | .... | 1047 | 2501 | 1540.9 | 77.4 | 28.8 | 3.0 |
| Mean. | 8.38 | 7.13 | .... | .... | .... | .... | 80.5 | 80.7 | 51.4 | 2.50 | 0.93 | 0.10 |
| Max. | 14 | 10 | .... | .... | .... | .... | 120 | 176 | 206 | 7.0 | 3.7 | 0.4 |
| Min. | 5.0 | 5.0 | .... | .... | .... | .... | 63 | 15 | 6.6 | 0.6 | 0 | 0 |
| Acre-ft. | 515 | 141 | .... | .... | .... | .... | 2080 | 4960 | 3060 | 154 | 57 | 6.0 |

Total run-off for water year 1938-39=10,973 acre-feet.

Discharge of Illinois Creek at Walden, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|--------|-------|------|-------|
| 1.... | 0 | 0.8 | .... | .... | .... | .... | 74 | 22 | 32 | 7.5 | 0.8 | 2.1 |
| 2.... | 0 | .8 | .... | .... | .... | .... | 65 | 18 | 31 | 9.2 | .8 | 1.0 |
| 3.... | 0 | .9 | .... | .... | .... | .... | 60 | 13 | 37 | 9.7 | .8 | .4 |
| 4.... | 0 | 1.0 | .... | .... | .... | .... | 56 | 7.9 | 43 | 9.7 | .7 | .1 |
| 5.... | .1 | 1.1 | .... | .... | .... | .... | 52 | 4.7 | 51 | 12 | .6 | 0 |
| 6.... | .1 | 1.2 | .... | .... | .... | .... | 45 | 4.0 | 66 | 13 | .8 | 0 |
| 7.... | .4 | 1.4 | .... | .... | .... | .... | 42 | 4.0 | 108 | 9.2 | .7 | 0 |
| 8.... | 1.1 | 1.2 | .... | .... | .... | .... | 45 | 3.4 | 116 | 11 | 1.6 | 0 |
| 9.... | 2.3 | 1.1 | .... | .... | .... | .... | 37 | 3.2 | 86 | 10 | 1.2 | 0 |
| 10.... | 2.5 | 1.1 | .... | .... | .... | .... | 36 | 2.1 | 67 | 8.8 | 1.0 | .1 |
| 11.... | 2.3 | 1.0 | .... | .... | .... | .... | 27 | 2.1 | 49 | 8.4 | 1.0 | 0 |
| 12.... | 2.1 | 1.0 | .... | .... | .... | .... | 24 | 1.6 | 37 | 8.4 | .8 | 0 |
| 13.... | 1.6 | .8 | .... | .... | .... | .... | 24 | 2.1 | 27 | 7.5 | .8 | 0 |
| 14.... | 1.4 | .8 | .... | .... | .... | .... | 23 | 3.0 | 23 | 6.6 | .8 | 0 |
| 15.... | 1.1 | .8 | .... | .... | .... | .... | 37 | 3.0 | 23 | 5.6 | .7 | 0 |
| 16.... | .8 | .7 | .... | .... | .... | .... | 58 | 3.0 | 28 | 4.7 | .7 | 0 |
| 17.... | .8 | .8 | .... | .... | .... | .... | 48 | 3.0 | 29 | 4.4 | .5 | 0 |
| 18.... | .8 | 1.0 | .... | .... | .... | .... | 36 | 3.2 | 31 | 5.6 | .4 | 0 |
| 19.... | .8 | .8 | .... | .... | .... | .... | 31 | 3.4 | 31 | 5.3 | .4 | 0 |
| 20.... | .8 | .... | .... | .... | .... | .... | 40 | 3.7 | 31 | 5.3 | .5 | .1 |
| 21.... | .8 | .... | .... | .... | .... | .... | 46 | 10 | 33 | 5.3 | .4 | 1.4 |
| 22.... | .8 | .... | .... | .... | .... | .... | 39 | 12 | 30 | 5.6 | .1 | 2.3 |
| 23.... | .8 | .... | .... | .... | .... | .... | 28 | 13 | 26 | 5.3 | 0 | 2.7 |
| 24.... | .6 | .... | .... | .... | .... | .... | 19 | 14 | 23 | 3.7 | 0 | 2.7 |
| 25.... | .5 | .... | .... | .... | .... | .... | 20 | 14 | 20 | 2.5 | .4 | 3.0 |
| 26.... | .5 | .... | .... | .... | .... | .... | 16 | 14 | 15 | 2.1 | .4 | 2.7 |
| 27.... | .6 | .... | .... | .... | .... | .... | 13 | 14 | 12 | 1.2 | .2 | 2.5 |
| 28.... | .6 | .... | .... | .... | .... | .... | 22 | 27 | 9.7 | 2.7 | .1 | 2.7 |
| 29.... | .8 | .... | .... | .... | .... | .... | 31 | 81 | 7.0 | 1.2 | 0 | 2.7 |
| 30.... | .7 | .... | .... | .... | .... | .... | 28 | 69 | 6.6 | 1.1 | 0 | 2.5 |
| 31.... | .8 | .... | .... | .... | .... | .... | .... | 44 | .... | 1.0 | .1 | .... |
| Total | 26.5 | 18.3 | .... | .... | .... | .... | 1122 | 422.4 | 1128.3 | 193.6 | 17.3 | 29.0 |
| Mean. | .85 | .96 | .... | .... | .... | .... | 37.4 | 13.6 | 37.6 | 6.25 | .56 | .97 |
| Max. | 2.5 | 1.4 | .... | .... | .... | .... | 74 | 81 | 116 | 13 | 1.6 | 3.0 |
| Min. | 0 | .7 | .... | .... | .... | .... | 13 | 1.6 | 6.6 | 1.0 | 0 | 0 |
| Acre-ft. | 53 | 36 | .... | .... | .... | .... | 2230 | 838 | 2240 | 384 | 34 | 58 |

Total run-off for period=5,870 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Michigan River Near Lindland, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|--------|-------|-------|-------|-------|-------|-------|------|--------|-------|-------|
| 1..... | 14 | 5.6 | ..... | ..... | ..... | ..... | ..... | 150 | 254 | 48 | 14 | 19 |
| 2..... | 18 | 5.6 | ..... | ..... | ..... | ..... | ..... | 172 | 223 | 70 | 13 | 19 |
| 3..... | 21 | 6.3 | ..... | ..... | ..... | ..... | ..... | 172 | 174 | 35 | 12 | 16 |
| 4..... | 19 | 6.3 | ..... | ..... | ..... | ..... | ..... | 146 | 205 | 28 | 9.9 | 15 |
| 5..... | 21 | 8.2 | ..... | ..... | ..... | ..... | ..... | 154 | 268 | 45 | 9.9 | 19 |
| 6..... | 21 | ..... | ..... | ..... | ..... | ..... | ..... | 162 | 249 | 70 | 11 | 19 |
| 7..... | 18 | ..... | ..... | ..... | ..... | ..... | ..... | 116 | 194 | 70 | 16 | 19 |
| 8..... | 23 | ..... | ..... | ..... | ..... | ..... | ..... | 128 | 160 | 66 | 15 | 19 |
| 9..... | 24 | ..... | ..... | ..... | ..... | ..... | ..... | 138 | 138 | 60 | 9.9 | 18 |
| 10..... | 18 | ..... | ..... | ..... | ..... | ..... | ..... | 154 | 104 | 57 | 9.9 | 17 |
| 11..... | 19 | ..... | ..... | ..... | ..... | ..... | ..... | 150 | 90 | 56 | 9.0 | 17 |
| 12..... | 19 | ..... | ..... | ..... | ..... | ..... | ..... | 130 | 81 | 57 | 8.2 | 17 |
| 13..... | 18 | ..... | ..... | ..... | ..... | ..... | ..... | 114 | 81 | 52 | 7.9 | 15 |
| 14..... | 18 | ..... | ..... | ..... | ..... | ..... | ..... | 120 | 100 | 26 | 6.3 | 14 |
| 15..... | 21 | ..... | ..... | ..... | ..... | ..... | ..... | 146 | 108 | 7.9 | 6.0 | 14 |
| 16..... | 18 | ..... | ..... | ..... | ..... | ..... | ..... | 8.2 | 185 | 92 | 6.7 | 7.5 |
| 17..... | 19 | ..... | ..... | ..... | ..... | ..... | ..... | 8.2 | 172 | 89 | 9.0 | 7.9 |
| 18..... | 19 | ..... | ..... | ..... | ..... | ..... | ..... | 13 | 185 | 73 | 27 | 6.0 |
| 19..... | 18 | ..... | ..... | ..... | ..... | ..... | ..... | 8.2 | 194 | 52 | 27 | 6.0 |
| 20..... | 17 | ..... | ..... | ..... | ..... | ..... | ..... | 8.2 | 207 | 73 | 23 | 6.7 |
| 21..... | 14 | ..... | ..... | ..... | ..... | ..... | ..... | 9.9 | 181 | 81 | 21 | 5.0 |
| 22..... | 7.9 | ..... | ..... | ..... | ..... | ..... | ..... | 21 | 198 | 68 | 21 | 5.6 |
| 23..... | 6.7 | ..... | ..... | ..... | ..... | ..... | ..... | 26 | 211 | 63 | 18 | 7.5 |
| 24..... | 6.3 | ..... | ..... | ..... | ..... | ..... | ..... | 23 | 203 | 63 | 17 | 7.5 |
| 25..... | 6.0 | ..... | ..... | ..... | ..... | ..... | ..... | 18 | 181 | 68 | 17 | 8.2 |
| 26..... | 7.1 | ..... | ..... | ..... | ..... | ..... | ..... | 19 | 148 | 48 | 21 | 8.2 |
| 27..... | 7.5 | ..... | ..... | ..... | ..... | ..... | ..... | 35 | 126 | 39 | 22 | 7.5 |
| 28..... | 7.9 | ..... | ..... | ..... | ..... | ..... | ..... | 60 | 126 | 37 | 19 | 9.9 |
| 29..... | 6.7 | ..... | ..... | ..... | ..... | ..... | ..... | 89 | 136 | 31 | 14 | 15 |
| 30..... | 6.7 | Nov. 1 | ..... | ..... | ..... | ..... | ..... | 142 | 185 | 31 | 14 | 15 |
| 31..... | 6.3 | to 5 | ..... | ..... | ..... | ..... | ..... | ..... | 205 | ..... | 13 | 21 |
| Total | 466.1 | 32.0 | ..... | ..... | ..... | ..... | 500.7 | 4995 | 3337 | 1037.6 | 302.5 | 454.8 |
| Mean. | 15.0 | 6.4 | ..... | ..... | ..... | ..... | 31.3 | 161 | 111 | 33.5 | 9.76 | 15.2 |
| Max.. | 24 | 8.2 | ..... | ..... | ..... | ..... | 142 | 211 | 268 | 70 | 21 | 19 |
| Min.. | 6.0 | 5.6 | ..... | ..... | ..... | ..... | 8.2 | 114 | 31 | 6.7 | 5.0 | 9.0 |
| Acre-ft. | 924 | 63 | ..... | ..... | ..... | ..... | 993 | 9910 | 6620 | 2060 | 600 | 902 |

Total run-off for water year 1938-39=22,072 acre-feet.

Discharge of Michigan River Near Lindland, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|-------|
| 1..... | 9.6 | 14 | ..... | ..... | ..... | ..... | 13 | 24 | 184 | 54 | 20 | 18 |
| 2..... | 10 | 14 | ..... | ..... | ..... | ..... | 12 | 32 | 186 | 76 | 19 | 17 |
| 3..... | 10 | 8.2 | ..... | ..... | ..... | ..... | 11 | 57 | 178 | 60 | 18 | 12 |
| 4..... | 12 | 7.6 | ..... | ..... | ..... | ..... | 11 | 82 | 154 | 42 | 15 | 17 |
| 5..... | 9.6 | 7.9 | ..... | ..... | ..... | ..... | 10 | 95 | 160 | 47 | 18 | 14 |
| 6..... | 11 | 8.9 | ..... | ..... | ..... | ..... | 9.5 | 113 | 150 | 32 | 18 | 13 |
| 7..... | 13 | 7.9 | ..... | ..... | ..... | ..... | 8.5 | 111 | 114 | 32 | 18 | 12 |
| 8..... | 16 | 7.2 | ..... | ..... | ..... | ..... | 7.8 | 92 | 90 | 30 | 18 | 8.9 |
| 9..... | 24 | 7.2 | ..... | ..... | ..... | ..... | 7.6 | 98 | 65 | 27 | 17 | 7.6 |
| 10..... | 19 | 7.2 | ..... | ..... | ..... | ..... | 7.9 | 105 | 52 | 24 | 14 | 8.2 |
| 11..... | 18 | 8.9 | ..... | ..... | ..... | ..... | 8.2 | 105 | 48 | 20 | 15 | 8.9 |
| 12..... | 19 | 7.6 | ..... | ..... | ..... | ..... | 7.0 | 122 | 57 | 17 | 12 | 8.2 |
| 13..... | 19 | 7.9 | ..... | ..... | ..... | ..... | 10 | 131 | 63 | 14 | 12 | 8.2 |
| 14..... | 18 | 9.6 | ..... | ..... | ..... | ..... | 17 | 98 | 94 | 12 | 11 | 8.2 |
| 15..... | 19 | 12 | ..... | ..... | ..... | ..... | 14 | 95 | 104 | 9.6 | 12 | 8.9 |
| 16..... | 15 | ..... | ..... | ..... | ..... | ..... | 23 | 113 | 132 | 12 | 12 | 6.9 |
| 17..... | 16 | ..... | ..... | ..... | ..... | ..... | 24 | 97 | 140 | 16 | 11 | 6.9 |
| 18..... | 16 | ..... | ..... | ..... | ..... | ..... | 22 | 100 | 129 | 24 | 12 | 7.2 |
| 19..... | 16 | ..... | ..... | ..... | ..... | ..... | 22 | 82 | 127 | 34 | 12 | 6.9 |
| 20..... | 15 | ..... | ..... | ..... | ..... | ..... | 33 | 84 | 118 | 22 | 12 | 7.6 |
| 21..... | 15 | ..... | ..... | ..... | ..... | ..... | 37 | 84 | 109 | 19 | 11 | 7.2 |
| 22..... | 14 | ..... | ..... | ..... | ..... | ..... | 32 | 66 | 97 | 22 | 12 | 7.2 |
| 23..... | 14 | ..... | ..... | ..... | ..... | ..... | 33 | 49 | 73 | 22 | 12 | 6.9 |
| 24..... | 16 | ..... | ..... | ..... | ..... | ..... | 25 | 48 | 60 | 20 | 14 | 5.3 |
| 25..... | 17 | ..... | ..... | ..... | ..... | ..... | 24 | 55 | 46 | 22 | 24 | 4.8 |
| 26..... | 18 | ..... | ..... | ..... | ..... | ..... | 26 | 66 | 51 | 20 | 32 | 4.8 |
| 27..... | 16 | ..... | ..... | ..... | ..... | ..... | 31 | 82 | 42 | 19 | 44 | 4.8 |
| 28..... | 11 | ..... | ..... | ..... | ..... | ..... | 27 | 73 | 45 | 19 | 39 | 4.8 |
| 29..... | 13 | ..... | ..... | ..... | ..... | ..... | 33 | 78 | 46 | 17 | 30 | 7.9 |
| 30..... | 10 | ..... | ..... | ..... | ..... | ..... | 31 | 89 | 52 | 17 | 26 | 9.6 |
| 31..... | 14 | ..... | ..... | ..... | ..... | ..... | ..... | 122 | ..... | 17 | 23 | ..... |
| Total | 463.2 | 136.1 | ..... | ..... | ..... | ..... | 577.5 | 2648 | 2966 | 808.6 | 561 | 268.9 |
| Mean. | 14.9 | 9.07 | ..... | ..... | ..... | ..... | 19.2 | 85.4 | 98.9 | 26.1 | 18.1 | 8.96 |
| Max.. | 24 | 14 | ..... | ..... | ..... | ..... | 37 | 131 | 186 | 76 | 44 | 18 |
| Min.. | 9.6 | 7.2 | ..... | ..... | ..... | ..... | 7.0 | 24 | 42 | 9.6 | 11 | 4.8 |
| Acre-ft. | 919 | 270 | ..... | ..... | ..... | ..... | 1150 | 5250 | 5880 | 1600 | 1110 | 533 |

Total run-off for period=16,710 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Michigan River at Haworth School Near Lindland, Colo., for Year Ending
Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | |
|----------|------|--------|------|------|------|------|----------|------|-------|------|------|-------|------|
| 1.... | 22 | 18 | .... | .... | .... | .... | .... | 225 | 326 | 95 | 14 | 25 | |
| 2.... | 25 | 18 | .... | .... | .... | .... | .... | 230 | 306 | 78 | 13 | 23 | |
| 3.... | 27 | 18 | .... | .... | .... | .... | .... | 251 | 222 | 49 | 13 | 18 | |
| 4.... | 25 | 18 | .... | .... | .... | .... | .... | 201 | 263 | 50 | 12 | 16 | |
| 5.... | 24 | 18 | .... | .... | .... | .... | .... | 215 | 338 | 59 | 12 | 20 | |
| 6.... | 25 | .... | .... | .... | .... | .... | .... | 227 | 338 | 68 | 12 | 24 | |
| 7.... | 24 | .... | .... | .... | .... | .... | .... | 172 | 278 | 63 | 16 | 22 | |
| 8.... | 25 | .... | .... | .... | .... | .... | .... | 160 | 225 | 59 | 16 | 22 | |
| 9.... | 29 | .... | .... | .... | .... | .... | .... | 187 | 203 | 54 | 13 | 19 | |
| 10.... | 26 | .... | .... | .... | .... | .... | .... | 215 | 183 | 49 | 12 | 19 | |
| 11.... | 24 | .... | .... | .... | .... | .... | .... | 220 | 164 | 46 | 13 | 19 | |
| 12.... | 23 | .... | .... | .... | .... | .... | .... | 196 | 149 | 48 | 11 | 22 | |
| 13.... | 22 | .... | .... | .... | .... | .... | .... | 164 | 136 | 41 | 11 | 19 | |
| 14.... | 22 | .... | .... | .... | .... | .... | April 15 | 183 | 152 | 33 | 11 | 17 | |
| 15.... | 22 | .... | .... | .... | .... | .... | to 30 | 60 | 198 | 58 | 20 | 15 | |
| 16.... | 24 | .... | .... | .... | .... | .... | .... | 46 | 251 | 140 | 18 | 15 | |
| 17.... | 24 | .... | .... | .... | .... | .... | .... | 50 | 244 | 134 | 16 | 16 | |
| 18.... | 26 | .... | .... | .... | .... | .... | .... | 52 | 237 | 122 | 23 | 16 | |
| 19.... | 25 | .... | .... | .... | .... | .... | .... | 50 | 249 | 104 | 22 | 14 | |
| 20.... | 23 | .... | .... | .... | .... | .... | .... | 48 | 294 | 101 | 20 | 14 | |
| 21.... | 24 | .... | .... | .... | .... | .... | .... | 58 | 297 | 126 | 18 | 14 | |
| 22.... | 22 | .... | .... | .... | .... | .... | .... | 90 | 299 | 123 | 18 | 14 | |
| 23.... | 21 | .... | .... | .... | .... | .... | .... | 106 | 330 | 105 | 18 | 15 | |
| 24.... | 20 | .... | .... | .... | .... | .... | .... | 111 | 323 | 98 | 18 | 22 | |
| 25.... | 20 | .... | .... | .... | .... | .... | .... | 110 | 314 | 102 | 17 | 19 | |
| 26.... | 19 | .... | .... | .... | .... | .... | .... | 114 | 268 | 88 | 16 | 17 | |
| 27.... | 19 | .... | .... | .... | .... | .... | .... | 134 | 227 | 69 | 18 | 16 | |
| 28.... | 18 | .... | .... | .... | .... | .... | .... | 183 | 215 | 60 | 16 | 18 | |
| 29.... | 18 | .... | .... | .... | .... | .... | .... | 194 | 213 | 60 | 14 | 23 | |
| 30.... | 18 | Nov. 1 | .... | .... | .... | .... | .... | 213 | 261 | 81 | 13 | 16 | |
| 31.... | 18 | to 5 | .... | .... | .... | .... | .... | .... | 222 | .... | 13 | 24 | |
| Total | 702 | 90 | | | | | | 1619 | 7358 | 4954 | 1090 | 397.6 | 549 |
| Mean. | 22.6 | 18 | | | | | | 101 | 237 | 165 | 35.2 | 12.8 | 18.3 |
| Max. | 29 | 18 | | | | | | 213 | 330 | 338 | 95 | 24 | 25 |
| Min. | 18 | 18 | | | | | | 46 | 160 | 60 | 13 | 9.2 | 14 |
| Acre-ft. | 1390 | 179 | | | | | | 3210 | 14590 | 9830 | 2160 | 789 | 1090 |

Total run-off for water year 1938-39=33,238 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Michigan River at Walden, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|--------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| 1..... | 34 | 21 | ..... | ..... | ..... | ..... | ..... | 182 | 258 | 28 | 12 | 20 |
| 2..... | 32 | 24 | ..... | ..... | ..... | ..... | ..... | 188 | 285 | 43 | 12 | 19 |
| 3..... | 31 | 26 | ..... | ..... | ..... | ..... | ..... | 171 | 242 | 42 | 9.5 | 16 |
| 4..... | 34 | 26 | ..... | ..... | ..... | ..... | ..... | 168 | 146 | 36 | 8.5 | 15 |
| 5..... | 35 | 26 | ..... | ..... | ..... | ..... | ..... | 144 | 130 | 29 | 7.5 | 14 |
| 6..... | 33 | 17 | ..... | ..... | ..... | ..... | ..... | 122 | 163 | 29 | 7.9 | 16 |
| 7..... | 33 | 15 | ..... | ..... | ..... | ..... | ..... | 115 | 193 | 36 | 8.8 | 26 |
| 8..... | 33 | 15 | ..... | ..... | ..... | ..... | ..... | 93 | 154 | 38 | 8.2 | 27 |
| 9..... | 35 | 15 | ..... | ..... | ..... | ..... | ..... | 82 | 122 | 32 | 7.9 | 22 |
| 10..... | 35 | ..... | ..... | ..... | ..... | ..... | ..... | 90 | 113 | 30 | 7.5 | 18 |
| 11..... | 34 | ..... | ..... | ..... | ..... | ..... | ..... | 90 | 101 | 27 | 6.7 | 16 |
| 12..... | 31 | ..... | ..... | ..... | ..... | ..... | ..... | 83 | 79 | 26 | 6.4 | 17 |
| 13..... | 29 | ..... | ..... | ..... | ..... | ..... | ..... | 80 | 51 | 27 | 6.1 | 16 |
| 14..... | 28 | ..... | ..... | ..... | ..... | ..... | ..... | 69 | 40 | 26 | 5.3 | 15 |
| 15..... | 28 | ..... | ..... | ..... | ..... | ..... | ..... | 65 | 32 | 23 | 4.1 | 12 |
| 16..... | 27 | ..... | ..... | ..... | ..... | ..... | ..... | 75 | 24 | 14 | 3.3 | 10 |
| 17..... | 28 | ..... | ..... | ..... | ..... | ..... | ..... | 77 | 136 | 21 | 13 | 2.7 |
| 18..... | 30 | ..... | ..... | ..... | ..... | ..... | ..... | 74 | 120 | 20 | 7.2 | 2.1 |
| 19..... | 31 | ..... | ..... | ..... | ..... | ..... | ..... | 83 | 101 | 25 | 5.6 | 1.7 |
| 20..... | 29 | ..... | ..... | ..... | ..... | ..... | ..... | 72 | 98 | 36 | 4.5 | 1.7 |
| 21..... | 28 | ..... | ..... | ..... | ..... | ..... | ..... | 69 | 122 | 58 | 4.1 | 1.6 |
| 22..... | 27 | ..... | ..... | ..... | ..... | ..... | ..... | 89 | 134 | 84 | 3.9 | 1.3 |
| 23..... | 23 | ..... | ..... | ..... | ..... | ..... | ..... | 132 | 136 | 72 | 3.9 | 1.2 |
| 24..... | 22 | ..... | ..... | ..... | ..... | ..... | ..... | 151 | 163 | 58 | 3.7 | 1.1 |
| 25..... | 21 | ..... | ..... | ..... | ..... | ..... | ..... | 146 | 179 | 60 | 3.5 | 3.1 |
| 26..... | 21 | ..... | ..... | ..... | ..... | ..... | ..... | 132 | 171 | 52 | 3.7 | 3.7 |
| 27..... | 21 | ..... | ..... | ..... | ..... | ..... | ..... | 128 | 140 | 33 | 4.1 | 3.7 |
| 28..... | 21 | ..... | ..... | ..... | ..... | ..... | ..... | 142 | 117 | 22 | 4.8 | 4.3 |
| 29..... | 21 | ..... | ..... | ..... | ..... | ..... | ..... | 158 | 103 | 18 | 7.5 | 9.8 |
| 30..... | 21 | Nov. 1 | ..... | ..... | ..... | ..... | ..... | 171 | 108 | 17 | 8.5 | 16 |
| 31..... | 21 | to 9 | ..... | ..... | ..... | ..... | ..... | ..... | 166 | ..... | 9.5 | 17 |
| Total | 877 | 185 | ..... | ..... | ..... | ..... | 1624 | 3811 | 2709 | 573.5 | 192.7 | 414.2 |
| Mean... | 28.3 | 20.6 | ..... | ..... | ..... | ..... | 116 | 123 | 90.3 | 18.5 | 6.22 | 13.8 |
| Max... | 35 | 26 | ..... | ..... | ..... | ..... | 171 | 188 | 285 | 43 | 17 | 27 |
| Min... | 21 | 15 | ..... | ..... | ..... | ..... | 69 | 65 | 17 | 3.5 | 1.1 | 7.9 |
| Acre-ft. | 1740 | 367 | ..... | ..... | ..... | ..... | 3220 | 7560 | 5370 | 1140 | 382 | 822 |

Total run-off for water year 1938-39=20,601 acre-feet.

Discharge of Michigan River at Walden, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| 1..... | 14 | 26 | ..... | ..... | ..... | ..... | 70 | 34 | 59 | 39 | 9.5 | 23 |
| 2..... | 12 | 25 | ..... | ..... | ..... | ..... | 76 | 35 | 106 | 55 | 8.5 | 15 |
| 3..... | 10 | 24 | ..... | ..... | ..... | ..... | 70 | 36 | 128 | 82 | 8.5 | 11 |
| 4..... | 11 | 23 | ..... | ..... | ..... | ..... | 64 | 31 | 144 | 65 | 8.5 | 11 |
| 5..... | 13 | 23 | ..... | ..... | ..... | ..... | 60 | 33 | 119 | 57 | 8.5 | 12 |
| 6..... | 12 | 24 | ..... | ..... | ..... | ..... | 58 | 37 | 136 | 47 | 7.5 | 12 |
| 7..... | 12 | 25 | ..... | ..... | ..... | ..... | 52 | 40 | 182 | 30 | 7.9 | 12 |
| 8..... | 14 | 25 | ..... | ..... | ..... | ..... | 46 | 40 | 132 | 28 | 6.9 | 9.5 |
| 9..... | 19 | 24 | ..... | ..... | ..... | ..... | 44 | 39 | 80 | 23 | 7.5 | 12 |
| 10..... | 22 | 19 | ..... | ..... | ..... | ..... | 42 | 35 | 61 | 18 | 7.5 | 14 |
| 11..... | 24 | 19 | ..... | ..... | ..... | ..... | 39 | 35 | 48 | 16 | 8.2 | 14 |
| 12..... | 26 | 19 | ..... | ..... | ..... | ..... | 35 | 48 | 39 | 14 | 7.2 | 12 |
| 13..... | 26 | 23 | ..... | ..... | ..... | ..... | 42 | 84 | 34 | 12 | 6.7 | 11 |
| 14..... | 25 | 25 | ..... | ..... | ..... | ..... | 50 | 100 | 28 | 10 | 6.1 | 10 |
| 15..... | 24 | ..... | ..... | ..... | ..... | ..... | 74 | 70 | 30 | 8.5 | 6.4 | 10 |
| 16..... | 24 | ..... | ..... | ..... | ..... | ..... | 83 | 46 | 58 | 7.9 | 6.7 | 10 |
| 17..... | 23 | ..... | ..... | ..... | ..... | ..... | 64 | 54 | 100 | 8.5 | 6.7 | 9.8 |
| 18..... | 23 | ..... | ..... | ..... | ..... | ..... | 58 | 61 | 103 | 13 | 6.1 | 10 |
| 19..... | 23 | ..... | ..... | ..... | ..... | ..... | 65 | 65 | 80 | 11 | 6.1 | 10 |
| 20..... | 23 | ..... | ..... | ..... | ..... | ..... | 72 | 68 | 72 | 12 | 7.9 | 12 |
| 21..... | 21 | ..... | ..... | ..... | ..... | ..... | 76 | 115 | 71 | 14 | 8.5 | 12 |
| 22..... | 21 | ..... | ..... | ..... | ..... | ..... | 71 | 106 | 64 | 12 | 7.9 | 12 |
| 23..... | 19 | ..... | ..... | ..... | ..... | ..... | 53 | 68 | 50 | 10 | 7.5 | 13 |
| 24..... | 19 | ..... | ..... | ..... | ..... | ..... | 50 | 44 | 39 | 12 | 7.5 | 13 |
| 25..... | 15 | ..... | ..... | ..... | ..... | ..... | 46 | 35 | 25 | 9.8 | 9.8 | 13 |
| 26..... | 12 | ..... | ..... | ..... | ..... | ..... | 36 | 39 | 22 | 8.5 | 16 | 12 |
| 27..... | 16 | ..... | ..... | ..... | ..... | ..... | 38 | 51 | 24 | 8.2 | 29 | 10 |
| 28..... | 26 | ..... | ..... | ..... | ..... | ..... | 54 | 110 | 24 | 9.2 | 37 | 9.8 |
| 29..... | 28 | ..... | ..... | ..... | ..... | ..... | 52 | 100 | 22 | 9.2 | 39 | 12 |
| 30..... | 24 | ..... | ..... | ..... | ..... | ..... | 42 | 71 | 23 | 9.2 | 33 | 16 |
| 31..... | 26 | ..... | ..... | ..... | ..... | ..... | ..... | 54 | ..... | 8.8 | 28 | ..... |
| Total | 607 | 324 | ..... | ..... | ..... | ..... | 1682 | 1784 | 2103 | 667.8 | 372.1 | 363.1 |
| Mean... | 19.6 | 23.1 | ..... | ..... | ..... | ..... | 56.1 | 57.5 | 70.1 | 21.5 | 12.0 | 12.1 |
| Max... | 28 | 26 | ..... | ..... | ..... | ..... | 83 | 115 | 182 | 82 | 39 | 23 |
| Min... | 10 | 19 | ..... | ..... | ..... | ..... | 35 | 31 | 22 | 7.9 | 6.1 | 9.5 |
| Acre-ft. | 1200 | 643 | ..... | ..... | ..... | ..... | 3340 | 3540 | 4170 | 1320 | 738 | 720 |

Total run-off for period=15,670 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Michigan River Near Cowdrey, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | |
|-----------|------|--------|------|------|------|------|-------|----------|--------|------|------|-------|-----|
| 1.... | 38 | 31 | .... | .... | .... | .... | .... | 225 | 230 | 1.4 | 0.7 | 4.2 | |
| 2.... | 31 | 36 | .... | .... | .... | .... | .... | 202 | 362 | 1.6 | 1.0 | 4.2 | |
| 3.... | 35 | 38 | .... | .... | .... | .... | .... | 181 | 390 | 2.5 | 1.4 | 3.8 | |
| 4.... | 36 | 38 | .... | .... | .... | .... | .... | 181 | 246 | 4.6 | 1.4 | 3.5 | |
| 5.... | 41 | 38 | .... | .... | .... | .... | .... | 168 | 149 | 3.2 | 1.3 | 3.8 | |
| 6.... | 44 | 38 | .... | .... | .... | .... | .... | 149 | 118 | 1.3 | 1.3 | 3.8 | |
| 7.... | 43 | .... | .... | .... | .... | .... | .... | 139 | 144 | 1.0 | 1.6 | 4.2 | |
| 8.... | 41 | .... | .... | .... | .... | .... | .... | 127 | 144 | 1.6 | 1.3 | 5.0 | |
| 9.... | 43 | .... | .... | .... | .... | .... | .... | 94 | 115 | 1.3 | 1.3 | 5.5 | |
| 10.... | 48 | .... | .... | .... | .... | .... | .... | 70 | 98 | 1.8 | 1.3 | 5.0 | |
| 11.... | 48 | .... | .... | .... | .... | .... | .... | 32 | 85 | 2.4 | 1.0 | 4.6 | |
| 12.... | 44 | .... | .... | .... | .... | .... | .... | 24 | 66 | 6.8 | 1.2 | 4.6 | |
| 13.... | 41 | .... | .... | .... | .... | .... | .... | 22 | 39 | 5.0 | 1.0 | 4.2 | |
| 14.... | 38 | | | | | | | April 16 | 21 | 23 | 2.0 | 0.9 | 4.2 |
| 15.... | 35 | .... | .... | .... | .... | .... | to 30 | 18 | 11 | 1.6 | 0.8 | 3.5 | |
| 16.... | 35 | .... | .... | .... | .... | .... | 225 | 17 | 2.8 | 3.2 | 0.5 | 3.2 | |
| 17.... | 36 | .... | .... | .... | .... | .... | 217 | 35 | 1.9 | 2.0 | 0.3 | 2.6 | |
| 18.... | 39 | .... | .... | .... | .... | .... | 146 | 101 | 1.4 | 1.6 | 0.2 | 2.3 | |
| 19.... | 41 | .... | .... | .... | .... | .... | 149 | 87 | 1.4 | 1.3 | 0.1 | 1.7 | |
| 20.... | 38 | .... | .... | .... | .... | .... | 149 | 51 | 1.6 | 0.9 | 0 | 1.7 | |
| 21.... | 35 | .... | .... | .... | .... | .... | 137 | 66 | 1.8 | 0.4 | 0 | 1.7 | |
| 22.... | 33 | .... | .... | .... | .... | .... | 142 | 118 | 1.8 | 0.2 | 0 | 1.7 | |
| 23.... | 32 | .... | .... | .... | .... | .... | 204 | 118 | 7.6 | 0.2 | 0 | 2.1 | |
| 24.... | 31 | .... | .... | .... | .... | .... | 268 | 149 | 7.6 | 0.1 | 0 | 2.3 | |
| 25.... | 30 | .... | .... | .... | .... | .... | 268 | 199 | 5.3 | 0.1 | 0 | 2.3 | |
| 26.... | 30 | .... | .... | .... | .... | .... | 204 | 228 | 3.6 | 0.1 | 0 | 2.1 | |
| 27.... | 30 | .... | .... | .... | .... | .... | 181 | 217 | 2.2 | 0.1 | 0 | 1.9 | |
| 28.... | 30 | .... | .... | .... | .... | .... | 186 | 171 | 1.6 | 0 | 0 | 2.1 | |
| 29.... | 30 | .... | .... | .... | .... | .... | 199 | 122 | 1.4 | 0 | 0 | 2.3 | |
| 30.... | 28 | Nov. 1 | .... | .... | .... | .... | 212 | 94 | 1.6 | 0 | 0 | 2.9 | |
| 31.... | 30 | to 6 | .... | .... | .... | .... | 142 | .... | .... | 0.2 | 1.0 | .... |  |
| Total | 1134 | 219 | .... | .... | .... | .... | 2887 | 3568 | 2263.6 | 48.5 | 19.6 | 97.0 | |
| Mean. | 36.6 | 36.5 | .... | .... | .... | .... | 192 | 115 | 75.5 | 1.56 | 0.63 | 3.23 | |
| Max.. | 48 | 38 | .... | .... | .... | .... | 268 | 228 | 390 | 6.8 | 1.6 | 5.5 | |
| Min.. | 28 | 31 | .... | .... | .... | .... | 137 | 17 | 1.4 | 0 | 0 | 1.7 | |
| Acree-ft. | 2250 | 434 | .... | .... | .... | .... | 5730 | 7080 | 4490 | 96 | 39 | 192 | |

Total run-off for water year 1938-39=20,311 acre-feet.

Discharge of Michigan River Near Cowdrey, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|-------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| 1.... | 2.8 | 18 | .... | .... | .... | .... | 110 | 52 | 14 | 4.1 | 17 | 8.6 |
| 2.... | 2.8 | 18 | .... | .... | .... | .... | 115 | 41 | 7.6 | 4.6 | 16 | 6.1 |
| 3.... | 2.6 | 17 | .... | .... | .... | .... | 105 | 25 | 19 | 8.1 | 14 | 3.1 |
| 4.... | 2.4 | 19 | .... | .... | .... | .... | 95 | 14 | 40 | 14 | 9.4 | 1.8 |
| 5.... | 2.4 | 19 | .... | .... | .... | .... | 90 | 9.4 | 57 | 9.4 | 7.6 | 1.6 |
| 6.... | 2.4 | 19 | .... | .... | .... | .... | 88 | 6.1 | 62 | 12 | 7.1 | 1.6 |
| 7.... | 2.4 | 21 | .... | .... | .... | .... | 74 | 2.6 | 141 | 7.6 | 6.6 | 2.1 |
| 8.... | 2.4 | 20 | .... | .... | .... | .... | 67 | 1.4 | 141 | 5.1 | 6.1 | 1.8 |
| 9.... | 3.4 | 20 | .... | .... | .... | .... | 64 | 1.1 | 103 | 5.1 | 5.1 | 1.8 |
| 10.... | 5.1 | 15 | .... | .... | .... | .... | 60 | 1.0 | 66 | 7.1 | 5.1 | 2.8 |
| 11.... | 17 | 14 | .... | .... | .... | .... | 55 | .8 | 22 | 8.6 | 5.1 | 2.8 |
| 12.... | 25 | 11 | .... | .... | .... | .... | 54 | .8 | 7.1 | 8.1 | 4.6 | 2.6 |
| 13.... | 26 | .... | .... | .... | .... | .... | 60 | 2.1 | 3.6 | 6.6 | 3.6 | 2.4 |
| 14.... | 25 | .... | .... | .... | .... | .... | 69 | 11 | 1.8 | 5.6 | 3.1 | 3.6 |
| 15.... | 24 | .... | .... | .... | .... | .... | 78 | 10 | 1.1 | 3.6 | 2.4 | 4.1 |
| 16.... | 23 | .... | .... | .... | .... | .... | 96 | 6.1 | 1.1 | 3.4 | 2.4 | 4.1 |
| 17.... | 22 | .... | .... | .... | .... | .... | 96 | 2.6 | 1.0 | 2.8 | 1.8 | 4.1 |
| 18.... | 22 | .... | .... | .... | .... | .... | 79 | 1.6 | 4.1 | 4.6 | 1.8 | 3.6 |
| 19.... | 20 | .... | .... | .... | .... | .... | 67 | 1.4 | 6.6 | 12 | 1.8 | 3.4 |
| 20.... | 16 | .... | .... | .... | .... | .... | 69 | 1.6 | 8.6 | 14 | 1.6 | 4.1 |
| 21.... | 16 | .... | .... | .... | .... | .... | 79 | 16 | 16 | 14 | 2.1 | 7.6 |
| 22.... | 15 | .... | .... | .... | .... | .... | 78 | 35 | 14 | 19 | 3.4 | 11 |
| 23.... | 15 | .... | .... | .... | .... | .... | 69 | 21 | 9.4 | 19 | 3.6 | 13 |
| 24.... | 15 | .... | .... | .... | .... | .... | 57 | 8.6 | 6.6 | 17 | 3.4 | 13 |
| 25.... | 15 | .... | .... | .... | .... | .... | 64 | 5.1 | 3.6 | 19 | 5.6 | 13 |
| 26.... | 12 | .... | .... | .... | .... | .... | 51 | 4.1 | 3.1 | 14 | 6.1 | 13 |
| 27.... | 8.6 | .... | .... | .... | .... | .... | 38 | 3.6 | 2.4 | 13 | 11 | 13 |
| 28.... | 8.6 | .... | .... | .... | .... | .... | 52 | 8.1 | 1.4 | 13 | 22 | 11 |
| 29.... | 18 | .... | .... | .... | .... | .... | 72 | 41 | 1.0 | 16 | 26 | 13 |
| 30.... | 15 | .... | .... | .... | .... | .... | 64 | 60 | 1.6 | 20 | 29 | 17 |
| 31.... | 17 | .... | .... | .... | .... | .... | .... | 34 | .... | 17 | 14 | .... |
| Total | 403.9 | 211 | .... | .... | .... | .... | 2215 | 428.3 | 766.7 | 327.4 | 248.4 | 190.7 |
| Mean. | 13.0 | 17.6 | .... | .... | .... | .... | 73.8 | 13.8 | 25.6 | 10.6 | 8.01 | 6.36 |
| Max.. | 26 | 21 | .... | .... | .... | .... | 115 | 60 | 141 | 20 | 29 | 17 |
| Min.. | 2.4 | 11 | .... | .... | .... | .... | 38 | 0.8 | 1.0 | 2.8 | 1.6 | 1.6 |
| Acree-ft. | 801 | 419 | .... | .... | .... | .... | 4390 | 850 | 1520 | 649 | 493 | 378 |

Total run-off for period=9,500 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Canadian River at Cowdrey, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | |
|----------|------|--------|------|------|------|------|----------|------|------|--------|------|-------|-------|
| 1.... | 14 | 18 | .... | .... | .... | .... | .... | 113 | 174 | 9.0 | 11 | 4.3 | |
| 2.... | 14 | 23 | .... | .... | .... | .... | .... | 110 | 158 | 7.4 | 14 | 6.4 | |
| 3.... | 15 | 28 | .... | .... | .... | .... | .... | 110 | 122 | 6.7 | 10 | 3.8 | |
| 4.... | 15 | 28 | .... | .... | .... | .... | .... | 119 | 84 | 6.4 | 7.0 | 3.0 | |
| 5.... | 16 | 28 | .... | .... | .... | .... | .... | 83 | 68 | 5.8 | 5.5 | 4.3 | |
| 6.... | 17 | .... | .... | .... | .... | .... | .... | 70 | 65 | 4.9 | 4.6 | 5.2 | |
| 7.... | 18 | .... | .... | .... | .... | .... | .... | 76 | 59 | 4.3 | 5.2 | 5.8 | |
| 8.... | 18 | .... | .... | .... | .... | .... | .... | 74 | 58 | 4.3 | 5.8 | 6.1 | |
| 9.... | 21 | .... | .... | .... | .... | .... | .... | 68 | 56 | 4.0 | 6.4 | 6.7 | |
| 10.... | 23 | .... | .... | .... | .... | .... | .... | 58 | 63 | 3.5 | 7.0 | 6.4 | |
| 11.... | 22 | .... | .... | .... | .... | .... | .... | 67 | 69 | 3.0 | 6.1 | 5.5 | |
| 12.... | 21 | .... | .... | .... | .... | .... | .... | 61 | 55 | 2.2 | 5.2 | 4.6 | |
| 13.... | 19 | .... | .... | .... | .... | .... | .... | 60 | 46 | 2.0 | 4.0 | 4.3 | |
| 14.... | 18 | .... | .... | .... | .... | .... | .... | 55 | 36 | 2.2 | 3.8 | 4.0 | |
| 15.... | 18 | .... | .... | .... | .... | .... | .... | 55 | 26 | 2.0 | 3.2 | 3.5 | |
| 16.... | 18 | .... | .... | .... | .... | .... | .... | 64 | 20 | 2.2 | 2.5 | 2.8 | |
| 17.... | 20 | .... | .... | .... | .... | .... | April 18 | 90 | 15 | 2.2 | 2.2 | 2.2 | |
| 18.... | 21 | .... | .... | .... | .... | .... | to 30 | 69 | 92 | 1.6 | 1.5 | 2.2 | |
| 19.... | 23 | .... | .... | .... | .... | .... | .... | 62 | 88 | 1.7 | 2.8 | 0.9 | |
| 20.... | 21 | .... | .... | .... | .... | .... | .... | 62 | 90 | 1.8 | 1.5 | 0.9 | |
| 21.... | 20 | .... | .... | .... | .... | .... | .... | 56 | 110 | 2.0 | 1.0 | 0.6 | |
| 22.... | 20 | .... | .... | .... | .... | .... | .... | 62 | 121 | 2.1 | 0.6 | 0.4 | |
| 23.... | 21 | .... | .... | .... | .... | .... | .... | 95 | 116 | 2.1 | 0.3 | 0.3 | |
| 24.... | 20 | .... | .... | .... | .... | .... | .... | 95 | 122 | 1.8 | 0.2 | 0.3 | |
| 25.... | 19 | .... | .... | .... | .... | .... | .... | 83 | 128 | 1.6 | 0.4 | 0.2 | |
| 26.... | 18 | .... | .... | .... | .... | .... | .... | 73 | 118 | 1.4 | 0.6 | 0 | |
| 27.... | 20 | .... | .... | .... | .... | .... | .... | 73 | 110 | 1.3 | 0.9 | 0 | |
| 28.... | 18 | .... | .... | .... | .... | .... | .... | 76 | 92 | 1.2 | 2.5 | 0.3 | |
| 29.... | 18 | .... | .... | .... | .... | .... | .... | 99 | 81 | 9.8 | 3.2 | 0.4 | |
| 30.... | 18 | Nov. 1 | .... | .... | .... | .... | .... | 116 | 83 | 9.4 | 3.8 | 3.0 | |
| 31.... | 17 | to 5 | .... | .... | .... | .... | .... | .... | 122 | .... | 4.9 | 4.9 | |
| Total | 581 | 125 | | | | | | 1021 | 2806 | 1379.2 | 96.3 | 117.2 | 138.6 |
| Mean. | 18.7 | 25 | | | | | | 78.5 | 90.5 | 46.0 | 3.11 | 3.78 | 4.62 |
| Max.. | 23 | 28 | | | | | | 116 | 128 | 174 | 9.0 | 14 | 12 |
| Min.. | 14 | 18 | | | | | | 56 | 55 | 9.4 | 0.2 | 0 | 1.8 |
| Acre-ft. | 1150 | 248 | | | | | | 2030 | 5570 | 2740 | 191 | 232 | 275 |

Total run-off for water year 1938-39=12,436 acre-feet.

Discharge of Canadian River at Cowdrey, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|------|------|------|------|------|------|--------|-------|-------|-------|
| 1.... | 12 | 14 | .... | .... | .... | .... | 48 | 18 | 72 | 12 | 7.7 | 10 |
| 2.... | 9.2 | 14 | .... | .... | .... | .... | 54 | 14 | 77 | 18 | 6.6 | 7.7 |
| 3.... | 8.1 | 14 | .... | .... | .... | .... | 50 | 20 | 80 | 32 | 5.9 | 7.0 |
| 4.... | 7.7 | 14 | .... | .... | .... | .... | 46 | 19 | 82 | 33 | 5.6 | 6.3 |
| 5.... | 8.4 | 14 | .... | .... | .... | .... | 42 | 18 | 76 | 29 | 5.0 | 5.9 |
| 6.... | 9.6 | 14 | .... | .... | .... | .... | 34 | 24 | 83 | 24 | 4.4 | 7.4 |
| 7.... | 9.6 | 16 | .... | .... | .... | .... | 38 | 24 | 117 | 19 | 4.4 | 7.7 |
| 8.... | 9.6 | 16 | .... | .... | .... | .... | 36 | 20 | 104 | 16 | 5.0 | 7.0 |
| 9.... | 11 | 16 | .... | .... | .... | .... | 38 | 18 | 62 | 14 | 5.0 | 7.7 |
| 10.... | 14 | 14 | .... | .... | .... | .... | 41 | 18 | 52 | 12 | 5.2 | 13 |
| 11.... | 15 | 13 | .... | .... | .... | .... | 33 | 18 | 42 | 14 | 5.6 | 18 |
| 12.... | 14 | .... | .... | .... | .... | .... | 30 | 22 | 37 | 12 | 6.6 | 16 |
| 13.... | 14 | .... | .... | .... | .... | .... | 30 | 42 | 30 | 10 | 5.9 | 12 |
| 14.... | 13 | .... | .... | .... | .... | .... | 28 | 67 | 26 | 8.8 | 5.0 | 11 |
| 15.... | 12 | .... | .... | .... | .... | .... | 41 | 65 | 23 | 7.4 | 4.0 | 13 |
| 16.... | 12 | .... | .... | .... | .... | .... | 60 | 60 | 31 | 5.2 | 3.7 | 12 |
| 17.... | 11 | .... | .... | .... | .... | .... | 53 | 59 | 45 | 5.2 | 3.4 | 12 |
| 18.... | 11 | .... | .... | .... | .... | .... | 38 | 61 | 34 | 7.7 | 3.4 | 11 |
| 19.... | 10 | .... | .... | .... | .... | .... | 29 | 55 | 27 | 13 | 3.7 | 10 |
| 20.... | 10 | .... | .... | .... | .... | .... | 28 | 51 | 23 | 22 | 4.0 | 13 |
| 21.... | 9.6 | .... | .... | .... | .... | .... | 20 | 65 | 24 | 22 | 4.4 | 18 |
| 22.... | 9.6 | .... | .... | .... | .... | .... | 25 | 71 | 22 | 17 | 4.4 | 18 |
| 23.... | 10 | .... | .... | .... | .... | .... | 25 | 57 | 20 | 22 | 5.0 | 19 |
| 24.... | 10 | .... | .... | .... | .... | .... | 27 | 47 | 18 | 19 | 5.6 | 16 |
| 25.... | 11 | .... | .... | .... | .... | .... | 27 | 42 | 16 | 14 | 11 | 16 |
| 26.... | 10 | .... | .... | .... | .... | .... | 23 | 44 | 14 | 12 | 11 | 14 |
| 27.... | 10 | .... | .... | .... | .... | .... | 14 | 61 | 12 | 10 | 16 | 14 |
| 28.... | 9.2 | .... | .... | .... | .... | .... | 17 | 93 | 9.6 | 8.4 | 16 | 14 |
| 29.... | 12 | .... | .... | .... | .... | .... | 20 | 103 | 6.3 | 8.4 | 16 | 16 |
| 30.... | 13 | .... | .... | .... | .... | .... | 20 | 90 | 7.7 | 8.8 | 14 | 21 |
| 31.... | 14 | .... | .... | .... | .... | .... | .... | 83 | .... | 8.4 | 11 | .... |
| Total | 339.6 | 159 | .... | .... | .... | .... | 1011 | 1449 | 1272.6 | 464.3 | 214.5 | 373.7 |
| Mean. | 11.0 | 14.5 | .... | .... | .... | .... | 33.7 | 46.7 | 42.4 | 15.0 | 6.92 | 12.5 |
| Max.. | 15 | 16 | .... | .... | .... | .... | 60 | 103 | 117 | 33 | 16 | 21 |
| Min.. | 7.7 | 13 | .... | .... | .... | .... | 14 | 14 | 6.3 | 5.2 | 3.4 | 5.9 |
| Acre-ft. | 674 | 315 | .... | .... | .... | .... | 2010 | 2870 | 2520 | 921 | 425 | 741 |

Total run-off for period=10,480 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Laramie River Near Glendevy, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|---------|------|------|------|------|------|-------|
| 1.... | 38 | 26 | .... | .... | .... | .... | 22 | 162 | 320 | 26 | 22 | 19 |
| 2.... | 40 | 27 | .... | .... | .... | .... | 25 | 187 | 250 | 25 | 21 | 18 |
| 3.... | 39 | 27 | .... | .... | .... | .... | 32 | 126 | 171 | 22 | 18 | 17 |
| 4.... | 37 | 26 | .... | .... | .... | .... | 41 | 103 | 197 | 20 | 16 | 16 |
| 5.... | 39 | 28 | .... | .... | .... | .... | 44 | 110 | 275 | 18 | 16 | 16 |
| 6.... | 48 | 22 | .... | .... | .... | .... | 38 | 106 | 215 | 15 | 16 | 18 |
| 7.... | 44 | 24 | .... | .... | .... | .... | 33 | 89 | 149 | 15 | 17 | 24 |
| 8.... | 44 | 26 | .... | .... | .... | .... | 32 | 96 | 124 | 15 | 16 | 26 |
| 9.... | 45 | 27 | .... | .... | .... | .... | 39 | 111 | 107 | 14 | 14 | 21 |
| 10.... | 44 | 26 | .... | .... | .... | .... | 34 | 118 | 106 | 14 | 14 | 18 |
| 11.... | 39 | 28 | .... | .... | .... | .... | 30 | 104 | 92 | 14 | 14 | 19 |
| 12.... | 37 | 24 | .... | .... | .... | .... | 31 | 95 | 83 | 15 | 14 | 20 |
| 13.... | 36 | 26 | .... | .... | .... | .... | 39 | 92 | 85 | 23 | 14 | 19 |
| 14.... | 35 | 26 | .... | .... | .... | .... | 46 | 113 | 113 | 41 | 20 | 18 |
| 15.... | 36 | 30 | .... | .... | .... | .... | 42 | 121 | 118 | 18 | 23 | 16 |
| 16.... | 34 | 24 | .... | .... | .... | .... | 35 | 118 | 97 | 20 | 23 | 16 |
| 17.... | 37 | 26 | .... | .... | .... | .... | 32 | 120 | 86 | 18 | 22 | 16 |
| 18.... | 34 | 22 | .... | .... | .... | .... | 32 | 147 | 77 | 15 | 21 | 16 |
| 19.... | 34 | 26 | .... | .... | .... | .... | 32 | 190 | 194 | 14 | 20 | 15 |
| 20.... | 33 | 26 | .... | .... | .... | .... | 34 | 194 | 218 | 14 | 20 | 15 |
| 21.... | 32 | 26 | .... | .... | .... | .... | 37 | 194 | 207 | 13 | 20 | 15 |
| 22.... | 32 | 22 | .... | .... | .... | .... | 43 | 207 | 78 | 14 | 18 | 15 |
| 23.... | 30 | 18 | .... | .... | .... | .... | 63 | 218 | 42 | 15 | 15 | 18 |
| 24.... | 28 | 20 | .... | .... | .... | .... | 58 | 204 | 39 | 14 | 17 | 18 |
| 25.... | 29 | 20 | .... | .... | .... | .... | 57 | 215 | 38 | 14 | 18 | 17 |
| 26.... | 27 | 18 | .... | .... | .... | .... | 54 | 182 | 35 | 15 | 18 | 18 |
| 27.... | 27 | 20 | .... | .... | .... | Mar. 29 | 58 | 144 | 31 | 16 | 18 | 18 |
| 28.... | 26 | 20 | .... | .... | .... | to 31 | 74 | 137 | 29 | 18 | 19 | 21 |
| 29.... | 26 | 22 | .... | .... | .... | 20 | 114 | 167 | 29 | 16 | 24 | 24 |
| 30.... | 26 | 22 | .... | .... | .... | 22 | 134 | 232 | 28 | 22 | 22 | 19 |
| 31.... | 26 | .... | .... | .... | .... | 24 | .... | 284 | .... | 24 | 21 | .... |
| Total | 1089 | 725 | .... | .... | .... | 66 | 1385 | 4686 | 3623 | 557 | 571 | 546 |
| Mean.. | 34.9 | 24.2 | .... | .... | .... | 22 | 46.2 | 151 | 121 | 18.0 | 18.4 | 18.2 |
| Max... | 48 | 30 | .... | .... | .... | 24 | 134 | 284 | 320 | 41 | 24 | 26 |
| Min... | 26 | 18 | .... | .... | .... | 20 | 22 | 89 | 28 | 13 | 14 | 15 |
| Acre-ft. | 2150 | 1440 | .... | .... | .... | 131 | 2750 | 9290 | 7210 | 1100 | 1130 | 1080 |

Total run-off for water year 1938-39=26,281 acre-feet.

Discharge of Laramie River Near Glendevy, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|-------|
| 1.... | 17 | 20 | .... | .... | .... | .... | 24 | 30 | 210 | 218 | 69 | 37 |
| 2.... | 15 | 24 | .... | .... | .... | .... | 24 | 32 | 178 | 260 | 65 | 34 |
| 3.... | 13 | 23 | .... | .... | .... | .... | 22 | 41 | 167 | 270 | 62 | 33 |
| 4.... | 14 | 23 | .... | .... | .... | .... | 21 | 76 | 140 | 230 | 59 | 41 |
| 5.... | 18 | 23 | .... | .... | .... | .... | 20 | 88 | 140 | 210 | 55 | 34 |
| 6.... | 19 | 26 | .... | .... | .... | .... | 21 | 89 | 140 | 190 | 53 | 32 |
| 7.... | 18 | 26 | .... | .... | .... | .... | 21 | 92 | 110 | 173 | 52 | 31 |
| 8.... | 18 | 24 | .... | .... | .... | .... | 21 | 95 | 83 | 154 | 53 | 24 |
| 9.... | 24 | 24 | .... | .... | .... | .... | 20 | 92 | 65 | 145 | 49 | 30 |
| 10.... | 23 | 22 | .... | .... | .... | .... | 20 | 95 | 68 | 140 | 46 | 59 |
| 11.... | 20 | 22 | .... | .... | .... | .... | 20 | 97 | 58 | 135 | 44 | 40 |
| 12.... | 20 | 22 | .... | .... | .... | .... | 23 | 93 | 68 | 129 | 42 | 32 |
| 13.... | 22 | 21 | .... | .... | .... | .... | 22 | 97 | 81 | 127 | 39 | 31 |
| 14.... | 22 | 20 | .... | .... | .... | .... | 30 | 78 | 92 | 121 | 38 | 30 |
| 15.... | 20 | 19 | .... | .... | .... | .... | 34 | 81 | 97 | 116 | 37 | 24 |
| 16.... | 20 | 18 | .... | .... | .... | .... | 34 | 96 | 106 | 121 | 39 | 24 |
| 17.... | 20 | 17 | .... | .... | .... | .... | 26 | 90 | 295 | 162 | 38 | 24 |
| 18.... | 20 | 17 | .... | .... | .... | .... | 29 | 90 | 367 | 215 | 37 | 26 |
| 19.... | 20 | 17 | .... | .... | .... | .... | 36 | 73 | 364 | 200 | 34 | 27 |
| 20.... | 19 | 18 | .... | .... | .... | .... | 47 | 73 | 374 | 151 | 34 | 27 |
| 21.... | 19 | 19 | .... | .... | .... | .... | 45 | 92 | 367 | 134 | 38 | 32 |
| 22.... | 19 | 19 | .... | .... | .... | .... | 38 | 81 | 331 | 120 | 35 | 32 |
| 23.... | 20 | 18 | .... | .... | .... | .... | 35 | 73 | 310 | 109 | 33 | 32 |
| 24.... | 20 | 18 | .... | .... | .... | .... | 37 | 65 | 278 | 100 | 37 | 32 |
| 25.... | 19 | 17 | .... | .... | .... | .... | 40 | 64 | 250 | 93 | 45 | 30 |
| 26.... | 16 | 17 | .... | .... | .... | .... | 43 | 73 | 242 | 89 | 62 | 33 |
| 27.... | 18 | 17 | .... | .... | .... | .... | 48 | 103 | 215 | 81 | 70 | 38 |
| 28.... | 18 | 17 | .... | .... | .... | .... | 45 | 116 | 220 | 67 | 56 | 35 |
| 29.... | 20 | 16 | .... | .... | .... | .... | 43 | 95 | 210 | 81 | 49 | 61 |
| 30.... | 22 | 18 | .... | .... | .... | .... | 18 | 39 | 88 | 200 | 81 | 45 |
| 31.... | 20 | .... | .... | .... | .... | .... | 21 | .... | 96 | .... | 74 | .... |
| Total | 593 | 602 | .... | .... | .... | .... | 928 | 2544 | 5826 | 4496 | 1457 | 1014 |
| Mean.. | 19.1 | 20.1 | .... | .... | .... | .... | 30.9 | 82.1 | 194 | 145 | 47.0 | 33.8 |
| Max... | 24 | 26 | .... | .... | .... | .... | 48 | 116 | 374 | 270 | 70 | 61 |
| Min... | 13 | 16 | .... | .... | .... | .... | 20 | 30 | 58 | 67 | 33 | 24 |
| Acre-ft. | 1180 | 1190 | .... | .... | .... | .... | 1840 | 5050 | 11560 | 8920 | 2890 | 2010 |

Total run-off for period=34,640 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Laramie River Near Jelm, Wyo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 60 | 48 | 36 | 28 | 26 | 28 | 66 | 305 | 830 | 77 | 76 | 31 |
| 2.... | 64 | 51 | 34 | 28 | 22 | 32 | 70 | 460 | 764 | 72 | 56 | 28 |
| 3.... | 65 | 51 | 34 | 26 | 24 | 32 | 80 | 494 | 557 | 65 | 48 | 24 |
| 4.... | 62 | 52 | 36 | 24 | 26 | 30 | 100 | 389 | 584 | 59 | 38 | 23 |
| 5.... | 60 | 52 | 36 | 24 | 28 | 28 | 110 | 432 | 677 | 48 | 33 | 23 |
| 6.... | 67 | 46 | 34 | 26 | 32 | 32 | 107 | 421 | 590 | 36 | 32 | 25 |
| 7.... | 70 | 44 | 34 | 24 | 34 | 36 | 105 | 310 | 477 | 30 | 35 | 36 |
| 8.... | 69 | 46 | 36 | 22 | 30 | 34 | 83 | 273 | 378 | 29 | 35 | 48 |
| 9.... | 72 | 48 | 36 | 24 | 28 | 36 | 92 | 282 | 348 | 25 | 28 | 49 |
| 10.... | 74 | 46 | 38 | 24 | 24 | 36 | 86 | 432 | 328 | 21 | 27 | 36 |
| 11.... | 69 | 48 | 38 | 22 | 26 | 34 | 76 | 368 | 300 | 21 | 25 | 33 |
| 12.... | 60 | 44 | 34 | 24 | 32 | 38 | 74 | 358 | 260 | 21 | 25 | 35 |
| 13.... | 57 | 46 | 32 | 22 | 36 | 44 | 79 | 278 | 238 | 21 | 25 | 39 |
| 14.... | 57 | 46 | 30 | 24 | 32 | 42 | 93 | 291 | 260 | 35 | 25 | 30 |
| 15.... | 56 | 48 | 32 | 20 | 34 | 40 | 93 | 338 | 282 | 48 | 29 | 30 |
| 16.... | 57 | 44 | 30 | 24 | 32 | 42 | 86 | 378 | 247 | 46 | 30 | 29 |
| 17.... | 57 | 46 | 28 | 22 | 26 | 44 | 67 | 314 | 223 | 62 | 30 | 29 |
| 18.... | 59 | 42 | 26 | 26 | 28 | 48 | 70 | 389 | 204 | 57 | 26 | 29 |
| 19.... | 59 | 44 | 30 | 28 | 34 | 50 | 79 | 564 | 358 | 54 | 25 | 27 |
| 20.... | 54 | 44 | 32 | 30 | 24 | 56 | 74 | 669 | 389 | 51 | 24 | 27 |
| 21.... | 56 | 44 | 28 | 30 | 22 | 58 | 74 | 669 | 278 | 42 | 25 | 27 |
| 22.... | 56 | 40 | 28 | 28 | 26 | 56 | 90 | 700 | 211 | 38 | 24 | 27 |
| 23.... | 52 | 36 | 24 | 26 | 30 | 55 | 113 | 748 | 119 | 43 | 25 | 30 |
| 24.... | 51 | 38 | 26 | 28 | 28 | 60 | 117 | 700 | 107 | 49 | 25 | 35 |
| 25.... | 51 | 38 | 28 | 30 | 26 | 64 | 111 | 684 | 109 | 46 | 25 | 31 |
| 26.... | 51 | 36 | 24 | 28 | 28 | 64 | 109 | 610 | 103 | 46 | 24 | 32 |
| 27.... | 51 | 38 | 22 | 32 | 26 | 60 | 113 | 488 | 93 | 48 | 23 | 31 |
| 28.... | 49 | 38 | 24 | 30 | 26 | 58 | 135 | 471 | 86 | 51 | 27 | 30 |
| 29.... | 48 | 40 | 26 | 28 | .... | 56 | 184 | 533 | 79 | 49 | 35 | 42 |
| 30.... | 48 | 40 | 24 | 30 | .... | 60 | 230 | 640 | 77 | 54 | 42 | 40 |
| 31.... | 46 | .... | 26 | 30 | .... | 62 | .... | 780 | .... | 70 | 35 | .... |
| Total | 1807 | 1324 | 946 | 812 | 790 | 1415 | 2966 | 14768 | 9556 | 1414 | 982 | 961 |
| Mean. | 58.3 | 44.1 | 30.5 | 26.2 | 28.2 | 45.6 | 98.9 | 476 | 319 | 45.6 | 31.7 | 32 |
| Max. | 74 | 52 | 38 | 32 | 36 | 64 | 230 | 780 | 820 | 77 | 76 | 49 |
| Min. | 46 | 36 | 22 | 20 | 22 | 28 | 66 | 273 | 77 | 21 | 23 | 23 |
| Acre-ft. | 3580 | 2630 | 1880 | 1610 | 1570 | 2810 | 5880 | 29290 | 18950 | 2800 | 1950 | 1910 |

Total run-off for water year 1938-39=74,860 acre-feet.

Discharge of Laramie River Near Jelm, Wyoming, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|-------|------|-------|
| 1.... | 35 | 40 | 28 | 24 | 24 | 29 | 53 | 86 | 700 | 400 | 92 | 52 |
| 2.... | 30 | 39 | 29 | 26 | 24 | 28 | 49 | 81 | 716 | 437 | 84 | 48 |
| 3.... | 28 | 39 | 29 | 26 | 24 | 27 | 46 | 96 | 740 | 447 | 81 | 46 |
| 4.... | 26 | 39 | 30 | 25 | 24 | 27 | 44 | 132 | 662 | 395 | 78 | 46 |
| 5.... | 29 | 39 | 31 | 25 | 24 | 27 | 43 | 238 | 617 | 345 | 76 | 53 |
| 6.... | 33 | 42 | 32 | 24 | 25 | 26 | 45 | 268 | 647 | 300 | 72 | 45 |
| 7.... | 38 | 42 | 32 | 24 | 25 | 26 | 45 | 272 | 579 | 258 | 71 | 41 |
| 8.... | 42 | 40 | 30 | 23 | 24 | 26 | 43 | 340 | 442 | 234 | 69 | 43 |
| 9.... | 49 | 43 | 29 | 24 | 23 | 26 | 43 | 345 | 370 | 214 | 69 | 43 |
| 10.... | 54 | 42 | 30 | 26 | 24 | 27 | 41 | 370 | 360 | 189 | 64 | 69 |
| 11.... | 51 | 40 | 31 | 24 | 24 | 26 | 40 | 370 | 305 | 186 | 64 | 69 |
| 12.... | 48 | 45 | 28 | 24 | 23 | 25 | 36 | 350 | 300 | 172 | 63 | 52 |
| 13.... | 46 | 52 | 25 | 24 | 23 | 25 | 41 | 400 | 315 | 162 | 58 | 46 |
| 14.... | 46 | 45 | 23 | 24 | 24 | 26 | 46 | 325 | 330 | 158 | 55 | 46 |
| 15.... | 42 | 39 | 25 | 23 | 24 | 27 | 58 | 290 | 335 | 155 | 53 | 45 |
| 16.... | 38 | 38 | 24 | 24 | 22 | 28 | 61 | 355 | 335 | 152 | 53 | 39 |
| 17.... | 39 | 35 | 24 | 25 | 21 | 29 | 53 | 432 | 526 | 196 | 53 | 38 |
| 18.... | 40 | 31 | 20 | 24 | 21 | 30 | 50 | 340 | 654 | 325 | 49 | 39 |
| 19.... | 39 | 30 | 17 | 23 | 21 | 30 | 56 | 320 | 632 | 295 | 48 | 41 |
| 20.... | 39 | 31 | 18 | 21 | 22 | 31 | 56 | 360 | 647 | 220 | 50 | 44 |
| 21.... | 35 | 32 | 18 | 22 | 23 | 33 | 67 | 380 | 625 | 172 | 52 | 50 |
| 22.... | 36 | 33 | 17 | 20 | 22 | 34 | 69 | 290 | 560 | 160 | 50 | 55 |
| 23.... | 36 | 35 | 18 | 21 | 22 | 35 | 59 | 310 | 516 | 143 | 48 | 53 |
| 24.... | 38 | 30 | 18 | 21 | 23 | 37 | 66 | 272 | 468 | 135 | 48 | 50 |
| 25.... | 36 | 29 | 19 | 22 | 26 | 40 | 72 | 281 | 406 | 124 | 55 | 48 |
| 26.... | 36 | 29 | 19 | 22 | 26 | 44 | 71 | 330 | 390 | 115 | 72 | 45 |
| 27.... | 35 | 29 | 19 | 23 | 27 | 47 | 96 | 560 | 360 | 108 | 86 | 52 |
| 28.... | 33 | 30 | 20 | 23 | 28 | 51 | 106 | 669 | 335 | 96 | 78 | 55 |
| 29.... | 36 | 30 | 21 | 23 | 29 | 53 | 90 | 548 | 315 | 94 | 63 | 81 |
| 30.... | 38 | 29 | 22 | 23 | .... | 55 | 92 | 537 | 295 | 115 | 58 | 79 |
| 31.... | 45 | .... | 23 | 24 | .... | 50 | .... | 548 | .... | 98 | 55 | .... |
| Total | 1196 | 1097 | 749 | 727 | 692 | 1025 | 1737 | 10495 | 14482 | 6600 | 1967 | 1513 |
| Mean. | 38.6 | 36.6 | 24.2 | 23.5 | 23.9 | 33.1 | 57.9 | 339 | 483 | 213 | 63.5 | 50.4 |
| Max. | 54 | 52 | 32 | 26 | 29 | 55 | 106 | 669 | 710 | 447 | 92 | 81 |
| Min. | 26 | 29 | 17 | 20 | 21 | 25 | 36 | 81 | 295 | 94 | 48 | 38 |
| Acre-ft. | 2370 | 2180 | 1490 | 1440 | 1370 | 2030 | 3450 | 20820 | 28720 | 13090 | 3900 | 3000 |

Total run-off for water year 1939-40=83,860 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

ARKANSAS RIVER BASIN

ARKANSAS RIVER AT GRANITE, COLORADO

Location—Water stage recorder in Sec. 31, T. 11 S., R. 79 W., at Granite just above mouth of Cache Creek.

Drainage Area—431 square miles. Zero of gage is 8,915.72 feet above mean sea level.

Records Available—May 1, 1897, to September 10, 1899; April 6, 1910, to September 30, 1940.

Maximum discharge observed during period 1897-99, 1910-40; 2,900 second feet, June 16, 1924. Gage height 4.57 feet.

Maximum Discharge—Year 1939; 1,700 second feet, May 20, 1939. Gage height 4.63 feet.

Maximum Discharge—Year 1940; 1,180 second feet, June 2, 1940. Gage height 3.81 feet.

Accuracy—Records considered good. Records for period of ice effect, December 9, 1938, to March 18, 1939, computed on basis of 3 discharge measurements and comparison of records at Salida, and those for ice effect period December 19 to March 3, 1940, computed on basis of two discharge measurements, weather records, and comparison Salida records, and are fair.

Diversions for storage and irrigation above station. Sugar Loaf and Twin Lakes reservoirs on tributaries above station, total capacities 72,120 acre-feet. Wurtz Ditch, Ewing Ditch, Buske-Ivanhoe Tunnel, Twin Lakes Tunnel and Fremont Pass Ditch bring water from Colorado River basin to Arkansas River above station. Total diversions for 1939, 47,163 acre-feet and 33,970 acre-feet in 1940.

| Ditch or Tunnel | Diverts from Stream | Diversions in Acre-Feet | |
|---------------------------|------------------------|----------------------------|--------|
| | | 1939 | 1940 |
| Buske-Ivanhoe Tunnel..... | Frying Pan River..... | 5,354 | 4,020 |
| Columbine Ditch..... | Eagle River | 1,239 | 1,110 |
| Ewing Ditch..... | Eagle River | 929 | 172 |
| Wurtz Ditch..... | Eagle River | 1,484 | 994 |
| Fremont Pass..... | Ten Mile River..... | 1,097 | 634 |
| Twin Lakes..... | Roaring Fork..... | 37,060 | 27,040 |
| Total..... | | 47,163 | 33,970 |

ARKANSAS RIVER AT SALIDA, COLORADO

Location—Water stage recorder in Sec. 31, T. 50 N., R. 9 E., at Salida. South Arkansas River enters 3 miles below. Prior to December 3, 1936, station located 1½ miles downstream. Records comparable.

Drainage Area—1,210 square miles. Zero of gage is 7,052.34 feet above mean sea level.

Records Available—April 11, 1895, to October 31, 1903; November 3, 1909, to September 30, 1940.

Maximum discharge observed during period 1895-1903, 1909-1940; 5,100 second feet, June 16, 1924. Gage height 7.2 feet, former site and datum.

Maximum Discharge—Year 1939; 2,500 second feet, August 1, 1939. Gage height 3.60 feet.

Maximum Discharge—Year 1940; 1,510 second feet, June 3, 1940. Gage height 2.73 feet.

Accuracy—Records considered excellent in 1939 and 1940.

Diversions for storage and irrigation above station. Flow regulated by storage in Clear Creek Reservoir, capacity 11,444 acre-feet, and as described under Arkansas River at Granite, Colorado.

ARKANSAS RIVER AT CANON CITY, COLORADO

Location—Water stage recorder in Sec. 32, T. 18 S., R. 70 W., in Canon City, just above mouth of Sand Creek and $\frac{1}{4}$ mile above Southern Colorado Power Plant.

Drainage Area—3,090 square miles. Zero of gage is 5,343.87 feet above mean sea level.

Records Available—May 1, 1888, to September 30, 1940.

Maximum discharge observed during period 1888-1940; 19,000 second feet, August 2, 1921. Gage height 10.7 feet. Rating curve extended above 4,000 second feet.

Maximum Discharge—Year 1939; 2,250 second feet, May 21, 1939. Gage height 3.41 feet.

Maximum Discharge—Year 1940; 3,870 second feet, September 3, 1940. Gage height 4.78 feet.

Accuracy—Records considered good except those for period of ice effect, December 27-30, 1939; January 19 to February 24, 1940, which were computed on basis of records for station at Salida, and weather records, and are fair.

Diversions for irrigation above station. Grape Creek enters from south one mile above station.

ARKANSAS RIVER AT PORTLAND, COLORADO

Location—Water stage recorder in Sec. 21, T. 19 S., R. 68 W., at lower edge of Portland, a short distance above mouth of Hardscrabble Creek.

Drainage Area—3,790 square miles. Zero of gage is 5,921.56 feet above mean sea level.

Records Available—June 1, 1939, to September 30, 1940.

Maximum discharge observed during period 1939-40; 4,290 second feet, August 19, 1939. Gage height 5.68 feet.

Maximum Discharge—Year 1939; 4,290 second feet, August 19, 1939. Gage height 5.68 feet.

Maximum Discharge—Year 1940; 3,970 second feet, August 19, 1940. Gage height 5.46 feet.

Accuracy—Records considered good during 1939, except for period of missing gage heights, September 5, 7-8, 16-17, 1939, which were estimated, and are fair. Records considered excellent during 1940.

Diversions for irrigation above station.

ARKANSAS RIVER NEAR PUEBLO, COLORADO

Location—Water stage recorder in Sec. 34, T. 20 S., R. 65 W., at South Side Water Works Intake, 4 miles west of center of Pueblo. Both South Side and North Side Water Works divert above station. Dry Creek enters below station.

Drainage Area—4,730 square miles. Zero of gage is 4,689.82 feet above mean sea level.

Records Available—May 1, 1885 to September 30, 1887; September 19, 1894, to September 30, 1940. A station was maintained 9 miles above Pueblo in 1887 and 1889.

Maximum discharge observed during period 1885-87, 1894-1940; 103,000 second feet (slope measurement, including estimated discharge of Dry Creek, 19,500 second feet), June 3, 1921. Gage height 24.66 feet from gage at Pueblo.

Maximum Discharge—Year 1939; 2,906 second feet, June 1, 1939.

Maximum Discharge—Year 1940; 3,860 second feet, August 19, 1940.

Accuracy—Records considered good except those estimated for period of ice effect, February 10-13, 17, 21-23, 28 to March 2, 1939; and those for December 26-31, 1939; January 7-13, 28 to February 9, 1940, estimated from reports and weather records, which are fair.

Diversions for irrigation above station. The North Side Water Works diverts considerable water around station, wasting the major portion back to river. Records include diversions above station by intake to North Side Water Works since October 1, 1934.

ARKANSAS RIVER NEAR AVONDALE, COLORADO

Location—Water stage recorder in Sec. 1, T. 21 S., R. 63 W., 800 feet downstream from Nyberg bridge, 2 miles west of Avondale. Six Mile Arroya enters one-half mile downstream.

Drainage Area—6,350 square miles.

Records Available—May 1, 1939, to September 30, 1940.

Maximum discharge observed during period 1939-40; 7,180 second feet, May 29, 1940. Gage height 4.61 feet.

Maximum Discharge—Year 1939; 3,190 second feet, May 26, 1939. Gage height 3.01 feet.

Maximum Discharge—Year 1940; 7,180 second feet, May 29, 1940. Gage height 4.61 feet.

Accuracy—Records considered good, except for periods of missing gage heights, September 5-9; October 16 to 30, 1939; April 1-3, 20; May 6; July 11-13, 14, 1940, during which discharges were estimated by comparison with Pueblo record and daily ditch diversion records.

Diversions for irrigation above station.

ARKANSAS RIVER NEAR NEPESTA, COLORADO

Location—Water stage recorder in Sec. 31, T. 21 S., R. 60 W., above Oxford Farmers Canal Dam, $1\frac{1}{4}$ miles west of Nepesta. Records corrected for Oxford Farmers Canal waste 1918-26; not corrected from 1927 to June, 1936. Since June, 1936, records include all river flow above Oxford Farmers Dam.

Drainage Area—9,130 square miles.

Records Available—September 8, 1897, to October 31, 1903; July 14, 1909, to November 12, 1912; January 1, 1914, to September 30, 1940. From 1918 to June 4, 1921, station maintained at Nepesta.

Maximum discharge observed during period 1897-1903, 1909-12, 1914-40; 180,000 second feet (by slope area measurement at point 9 miles upstream), June 4, 1921.

Maximum Discharge—Year 1939; 5,750 second feet, May 25, 1939. Gage height 4.71 feet.

Maximum Discharge—Year 1940; 8,100 second feet, May 29, 1940. Gage height 5.25 feet.

Accuracy—Records considered good except for period of ice effect November 25-29; December 18-22, 1938, computed on basis of two discharge measurements and records at Pueblo, and for period January 2-5, 14-22, 1939, and those estimated February 9 to March 1, 1939; and for ice period December 24, 1939, to February 5, 1940, from gage readers' reports, weather records, which are fair.

Diversions for irrigation and storage above station.

ARKANSAS RIVER AT LA JUNTA, COLORADO

Location—Water stage recorder in Sec. 2, T. 24 S., R. 55 W., at East Bridge, in La Junta, just above mouth of King Arroya. This station has been maintained at several different locations

at La Junta, during period of record, and all records are comparable.

Drainage Area—12,200 square miles. Zero of gage 4,039.60 feet above mean sea level.

Records Available—May to August, 1889; December, 1893, to December, 1895; January to December, 1901; April to October, 1903; August to November, 1908; April, 1912, to September 30, 1940.

Maximum discharge observed during period 1889, 1893-95, 1901, 1903, 1908, 1912-40; 200,000 second feet (slope area measurement), June 4, 1921. Gage height 18.4 feet.

Maximum Discharge—Year 1939; 6,410 second feet, August 19, 1939.

Maximum Discharge—Year 1940; 4,420 second feet, September 10, 1940. Gage height 6.70 feet.

Accuracy—Records considered good with frequent measurements and observations.

Diversions for storage and irrigation above station.

ARKANSAS RIVER AT LAS ANIMAS, COLORADO

Location—Water stage recorder in Sec. 35, T. 22 N., R. 52 W., $\frac{1}{3}$ mile below steel bridge on U. S. Highway 50, at Las Animas. Zero of gage is 3,874.97 feet above mean sea level.

Records Available—May 23, 1939, to September 30, 1940.

Maximum Discharge—Year 1940; 3,070 second feet, September 11, 1940. Gage height 5.61 feet.

Diversions for storage and irrigation above station.

Records furnished by Corps of Engineers, U. S. Army.

ARKANSAS RIVER AT CADDOA, COLORADO

Location—Water stage recorder in N. W. corner of Sec. 4, T. 23 S., R. 49 W., 2 miles east of Caddoa and just upstream from mouth of Caddoa Creek.

Drainage Area—19,000 square miles. Zero of gage is 3,741.04 feet above mean sea level.

Records Available—February 7, 1938, to September 30, 1940.

Maximum discharge observed during period 11,800 second feet, July 18, 1938. Gage height 5.85 feet.

Accuracy—Records considered good.

Diversions for irrigation and storage above station.

ARKANSAS RIVER AT LAMAR, COLORADO

Location—Water stage recorder in Sec. 30, T. 22 S., R. 46 W., at highway bridge 1 mile north of Lamar. Lamar Canal diverts

mile above station and at times wastes water to river $\frac{1}{4}$ mile below station.

Drainage Area—19,800 square miles. Zero of gage is 3,629.61 feet above mean sea level.

Records Available—May 11, 1913, to September 30, 1940.

Maximum discharge observed during period 1913-40; 165,000 second feet (slope area measurement), June 5, 1921.

Maximum Discharge—Year 1939; 957 second feet, February 21, 1939. Gage height 3.63 feet.

Maximum Discharge—Year 1940; 4,080 second feet, June 11, 1940. Gage height 4.40 feet.

Accuracy—Records considered fair except those for period of ice effect December 25-31, 1939; January 5-9, 19-27, 1940, computed on basis of weather records and estimates by observer and are poor, and those for period of missing gage heights, June 16-22, 1940, estimated from daily reports.

Diversions for irrigation above station.

ARKANSAS RIVER AT HOLLY, COLORADO

Location—Water stage recorder in Sec. 14, T. 23 S., R. 42 W., 700 feet above highway bridge and $\frac{1}{2}$ mile south of Holly. Recorder moved above bridge January, 1938, due to shift in channel. Two Buttes Creek enters $1\frac{1}{4}$ mile upstream, and Wild Horse Creek enters 1 mile downstream.

Drainage Area—25,000 square miles. Altitude, 3,387 feet above mean sea level.

Records Available—October 15, 1907, to September 30, 1940.

Maximum discharge observed during period 1907-40; 136,000 second feet (slope measurement), October 20, 1908. Gage height 11.0 feet, former datum.

Maximum Discharge—Year 1939; 1,140 second feet, May 26, 1939. Gage height 3.78 feet.

Maximum Discharge—Year 1940; 1,680 second feet, September 12, 1940. Gage height 4.58.

Accuracy—Records considered fair. Those for periods of ice effect November 25-29, 1938; December 27, 1938, to January 27, February 27 to March 10, 1939, and from January 15-30, 1940, computed on basis of 4 discharge measurements, weather records and observer's notes.

Diversions for irrigation above station.

SOUTH ARKANSAS RIVER NEAR SALIDA, COLORADO

Location—Water stage recorder in Sec. 5, T. 49 N., R. 9 E., $\frac{3}{4}$ mile above mouth and $1\frac{1}{4}$ miles southwest of Salida.

Drainage Area—208 square miles. Altitude, 7,038 feet above mean sea level.

Records Available—April 1, 1922, to December 31, 1924; June 9, 1929, to September 30, 1940. From April, 1922, to December, 1924, station maintained $\frac{1}{2}$ mile downstream. (Discontinued.)

Maximum daily discharge observed during period 1922-24, 1929-40; 1,220 second feet, June 17, 1923.

Maximum Discharge—Year 1939; 120 second feet, May 10, 1939. Gage height 2.50 feet.

Maximum Discharge—Year 1940; 205 second feet, August 22, 1940. Gage height 2.52 feet.

Accuracy—Records considered good except those for period of ice effect, November 23-30, 1938; January 10 to March 11, 1939, which were computed on basis of 1 discharge measurement and weather records, and those during ice effect December 6-31, 1939; January 6-11, 14, March 1, 1940, computed on basis of weather records, 2 discharge measurements, and which are fair.

Diversions for irrigation above station.

GRAPE CREEK NEAR WESTCLIFFE, COLORADO

Location—Water stage recorder in Sec. 36, T. 21 S., R. 73 W., at weir 1 mile above DeWeese Dye Reservoir, and 3 miles northwest of Westcliffe.

Drainage Area—346 square miles. Altitude, 7,800 feet above mean sea level.

Records Available—December 1, 1924, to June 30, 1928; March 25, 1930, to September 30, 1940.

Maximum discharge observed during period 1924-28, 1930-40; about 1,400 second feet, July 22, 1930. Gage height 4.60 feet (computed by weir formula, with overflow estimated).

Maximum Discharge—Year 1939; 196 second feet, May 26, 1939. Gage height 1.84 feet.

Maximum Discharge—Year 1940; 123 second feet, September 10, 1940. Gage height 1.52 feet.

Accuracy—Records considered good except those estimated from November 13, 1938, to March 17, 1939, and from December 13, 1939, to March 15, 1940, which are fair.

Diversions for irrigation above station.

MONUMENT CREEK AT PIKEVIEW, COLORADO

Location—Water stage recorder in Sec. 18, T. 13 S., R. 66 W., at east edge of Pikeview, 3 miles north of city limits of Colorado Springs and 0.1 mile west of U. S. Highways 85 and 87. Cottonwood Creek enters from left 1.4 mile above.

Drainage Area—204 square miles. Zero of gage is 6,203.31 feet above mean sea level.

Records Available—October 1, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 262 second feet, April 12, 1939. Gage height 2.96 feet.

Maximum Discharge—Year 1939; 262 second feet, April 12, 1939. Gage height 2.96 feet.

Maximum Discharge—Year 1940; 215 second feet, June 5, 1940. Gage height 2.85 feet.

Accuracy—Records considered poor.

FOUNTAIN CREEK NEAR FOUNTAIN, COLORADO

Location—Water stage recorder in Sec. 4, T. 17 S., R. 65 W., in El Paso County just above railroad bridge over Fountain Creek on right bank at old Roby ranch 6 miles south of Fountain and 1 mile downstream from Little Fountain Creek.

Drainage Area—676 square miles.

Records Available—October 1, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 22,100 second feet, May 28, 1940. Gage height 9.19 feet.

Maximum Discharge—Year 1939; 1,300 second feet, August 2, 1939. Gage height 3.65 feet.

Maximum Discharge—Year 1940; 22,100 second feet, May 28, 1940. Gage height 9.19 feet.

Accuracy—Records considered poor.

ST. CHARLES RIVER AT SAN ISABEL, COLORADO

Location—Water stage recorder in Sec. 12, T. 24 S., R. 69 W., at 10-foot rectangular weir above highwater of Lake Isabel, $\frac{3}{4}$ mile southwest of San Isabel.

Drainage Area—18.8 square miles.

Records Available—April 1, 1937, to September 30, 1940.

Complete records furnished by U. S. Forest Service.

HUERFANO RIVER AT MANZANARES CROSSING NEAR REDWING, COLORADO

Location—Water stage recorder in Sec. 5, T. 27 S., R. 71 W., at Manzanares Crossing, $3\frac{1}{2}$ miles southwest of Redwing.

Drainage Area—76 square miles.

Records Available—July 14, 1923, to September 30, 1940. No winter records prior to 1936.

Maximum discharge observed during period 1923-40; discharge not determined July 27, 1934. Gage height 4.80 feet.

Maximum Discharge—Year 1939; 153 second feet, August 25, 1939. Gage height 1.23 feet.

Maximum Discharge—Year 1940; 291 second feet, August 21, 1940. Gage height 1.64 feet.

Accuracy—Records considered good except those for period of ice effect November 6-10, 22, 1938, to March 29, 1939, computed on basis of 10 discharge measurements and weather records, and those for period of ice effect November 25-26; December 19, 1939, to March 21, 1940, computed on basis of 4 discharge measurements, weather records, and which are fair.

Diversions for irrigation above station.

HUERFANO RIVER AT BADITO, COLORADO

Location—Water stage recorder in Sec. 4, T. 27 S., R. 68 W., at concrete highway bridge on Highway 69 at Badito. South Oak Creek, an intermittent stream, enters a short distance upstream. Station maintained at this site 1912, 1923-25.

Drainage Area—519 square miles.

Records Available—August 28 to November 30, 1912; April 1, 1923, to September 30, 1925; March 6, 1938, to September 30, 1940.

Maximum Discharge—Year 1939; 3,160 second feet, August 2, 1939. Gage height 9.01 feet.

Maximum Discharge—Year 1940; 1,310 second feet, September 21, 1940. Gage height 7.1 feet.

Accuracy—Records considered poor. Those for ice period effect, December 19, 1939, to February 25, 1940, computed on basis of 4 discharge measurements and weather records.

Diversions for irrigation above station.

HUERFANO RIVER NEAR UNDERCLIFFE, COLORADO

Location—Water stage recorder in Sec. 15, T. 23 S., R. 63 W., at mouth of canyon $\frac{1}{2}$ mile below diversion dam for Huerfano Valley Ditch, and 5 miles southwest of Undercliffe. This replaces station previously maintained 600 feet above diversion dam. Records not comparable.

Drainage Area—1,702 square miles.

Records Available—May 16, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 11,000 second feet, June 7, 1938. Gage height 5.91 feet.

Maximum Discharge—Year 1939; 1,990 second feet, August 2, 1939. Gage height 2.80 feet.

Maximum Discharge—Year 1940; 5,480 second feet, September 9, 1940. Gage height 4.93 feet.

Accuracy—Records considered fair except those below 200 second feet which are poor. Records for periods May 22, 24-29; June 12 to July 14, August 22-28, computed on basis of 4 discharge measurements and estimates by water commissioner.

Diversions for storage and irrigation above station.

CUCHARAS RIVER AT BOYD RANCH NEAR LA VETA, COLORADO

Location—Water stage recorder in Sec. 24, T. 30 S., R. 69 W., 6 miles south of La Veta.

Drainage Area—75 square miles.

Records Available—January 1, 1923, to September 30, 1940. Prior to October, 1934, station located 2 miles downstream. Records not comparable.

Maximum discharge observed during period 1935-40; 291 second feet, June 3, 1937. Gage height 2.43 feet.

Maximum Discharge—Year 1939; 92 second feet, June 2, 1939. Gage height 1.52 feet.

Maximum Discharge—Year 1940; 102 second feet, May 21, 1940. Gage height 1.60 feet.

Accuracy—Records considered good except for ice period November 26-30; December 12, 1938, to March 14, 1939. Computed on basis of 7 discharge measurements and weather records, and those for period of ice effect, December 22, 1939, to March 15, 1940, computed on basis of 5 measurements and weather records, and which are fair.

Diversions for irrigation above station.

APISHAPA RIVER AT AGUILAR, COLORADO

Location—Water stage recorder in Sec. 4, T. 31 S., R. 65 W., $\frac{1}{2}$ mile above diversion dam and $1\frac{1}{2}$ miles southwest of Aguilar. This site, established September 30, 1939, is 2 miles above site used previously. Records are not comparable as ditch at diversion dam diverts water up to 50 second feet.

Drainage Area—130 square miles.

Records Available—April 1, 1938, to September 30, 1939, at former site; October 1, 1939, to September 30, 1940.

Maximum discharge observed during period 1938-40; 5,260 second feet (slope area method), August 10, 1938. Gage height 14.32 feet. (Former site and datum.)

Maximum Discharge—Year 1939; 1,100 second feet, August 20, 1939. Gage height 8.10 feet (former site).

Maximum Discharge—Year 1940; 112 second feet, September 23, 1940. Gage height 3.23 feet.

Accuracy—Records considered poor. Those for ice effect period, and from December 30-31, 1939, to January 12-30, 1940, computed on basis of weather records.

Diversions for irrigation above station.

APISHAPA RIVER NEAR MOUTH NEAR FOWLER, COLORADO

Location—Water stage recorder in Sec. 35, T. 22 N., R. 59 W.,

at concrete highway bridge 4 miles above mouth and $3\frac{1}{2}$ miles south of Fowler. Oxford Farmers Canal wastes into stream approximately $\frac{1}{2}$ mile upstream.

Records Available—April 1, 1922, to September 30, 1925, State Engineer records; May, 1939, to September 30, 1940.

Maximum discharge observed during period 1922-25, 1939-40; 50,000 second feet, August 22, 1923. Gage height 24.70 feet.

Maximum Discharge—Year 1940; 5,320 second feet, September 10, 1940. Gage height 8.30 feet.

1940 records furnished by Corps of Engineers, U. S. Army.

PURGATOIRE RIVER AT TRINIDAD, COLORADO

Location—Water stage recorder in Sec. 13, T. 33 S., R. 64 W., at foot of State Street, in Trinidad. Stations maintained at various sites, but records are comparable.

Drainage Area—742 square miles. Altitude, 5,990 feet above mean sea level.

Records Available—May, 1896, to July, 1899; August to December, 1905; November, 1906, to March, 1907; October, 1907, to November, 1912; April, 1916, to September 30, 1940.

Maximum discharge observed during period 1896-99, 1905, 1906-12, 1916-40; 45,400 second feet, September 30, 1904. Gage height 16.6 feet from Commercial Street gage.

Maximum Discharge—Year 1939; 1,615 second feet, October 8, 1939. Gage height 3.61 feet.

Maximum Discharge—Year 1940; 2,830 second feet, September 10, 1940. Gage height 4.49 feet.

Accuracy—Records considered good except for ice effect periods, November 6-10, 22-30; December 14-25, 1938; January 18-22, February 1-9, 17, 18, 22 to March 5; and November 21-24; December 17, 1939, to February 22, 1940, computed on basis of 5 discharge measurements each period, and weather records, and which are fair.

Diversions for irrigation above station.

PURGATOIRE RIVER AT NINE MILE DAM NEAR HIGBEE, COLORADO

Location—Water stage recorder in Sec. 32, T. 26 S., R. 54 W., 700 feet above Nine Mile Dam, 4 miles southwest of Higbee and 15 miles south of La Junta. Smith Canon enters 4 miles below station.

Drainage Area—2,900 square miles. Zero of gage is 4,240.59 feet above mean sea level.

Records Available—October, 1924, to September 30, 1940.

Maximum discharge observed during period 1924-40; 64,500

second feet, September 15, 1934, by slope area method. Gage height 12.60 feet.

Maximum Discharge—Year 1939; 3,430 second feet, August 20, 1939. Gage height 4.67 feet.

Maximum Discharge—Year 1940; 8,570 second feet, September 10, 1940. Gage height 5.67 feet.

Accuracy—Records considered fair. Those for ice effect periods December 14, 15, 23, 24, 1938; February 5, 6, 1939, and January 7-10, 18-31, 1940, were computed on basis of weather records.

Discharges for October 1-5, 1938; May 7; June 1, 5, 19, 22-26; July 2-8, 11-22, 24-27, 28; August 6-18, 29-31; December 7, 1939, to April 4, 1940; April 28 to May 18; June 1-7; July 3-14, 17-29; August 1-4, 6, 8-16, 26-31; September 1-5, 7-10, 22, 23, 29, 30, 1940, measured through a Parshall flume.

Diversions for irrigation above station.

PURGATOIRE RIVER AT HIGHLAND (CARMEN) DAM NEAR LAS ANIMAS, COLORADO

Location—Water stage recorder in Sec. 1, T. 25 S., R. 53 W., above Highland Ditch diversion; dam situated 11 miles southwest of Las Animas. Tarbox Arroya enters $\frac{1}{4}$ mile below station.

Drainage Area—3,320 square miles

Records Available—October 1, 1931, to September 30, 1940.

Maximum discharge observed during period 1931-40; 33,000 second feet, by slope area method, September 15, 1934. Gage height 14.00 feet.

Maximum Discharge—Year 1939; 3,800 second feet, August 20, 1939. Gage height 4.85 feet.

Maximum Discharge—Year 1940; 5,900 second feet, June 10, 1940. Gage height 5.84 feet.

Accuracy—Records considered fair. Those for periods of ice effect November 28-31, 1938; February 6-10, 22 to March 3, and from December 25, 1939, to February 7, 1940, which were computed on basis of discharge measurements and weather records.

Diversions for irrigation above station.

WILD HORSE CREEK NEAR HOLLY, COLORADO

Location—Water stage recorder in Sec. 15, T. 23 S., R. 42 W., just upstream from mouth and $\frac{1}{4}$ mile from Holly.

Altitude—3,387 feet above mean sea level.

Records Available—October 1, 1922, to August 28, 1935; November 17, 1938, to September 30, 1940.

Maximum discharge observed during period 1922-35, 1938-40; 22,000 second feet (slope measurement), August 28, 1935, at point 11 miles above station.

Maximum Discharge—Year 1939; 108 second feet, January 14, 1939. Gage height 2.65 feet.

Maximum Discharge—Year 1940; 624 second feet, May 8, 1940. Gage height 4.21 feet.

Accuracy—Records considered poor.

Diversions for irrigation above station.

HOLLY DRAIN NEAR HOLLY, COLORADO

Location—Water stage recorder in Sec. 16, T. 23 S., R. 41 W., 100 yards west of Colorado-Kansas state line, where Santa Fe railroad crosses Drain. Cheyenne Creek enters just above station.

Altitude—3,385 feet above mean sea level.

Records Available—January 1, 1924, to September 30, 1940.

Maximum discharge observed during period 1924-40; 1,470 second feet, September 3, 1938. Gage height 10.29 feet.

Maximum Discharge—Year 1939; 246 second feet, May 2, 1939. Gage height 8.44 feet.

Maximum Discharge—Year 1940; 172 second feet, May 8, 1940. Gage height 7.56 feet.

Accuracy—Records considered fair. Periods of ice effect, November 22-28, 1938, and December 12, 1938, to March 6, 1939, computed on basis of 5 discharge measurements, weather records and observations. Records from October 8 to 24, 1939, and from January 18 to February 4, 1940, were computed on basis of discharge measurements and gage readings. Since October 1, 1938, Wild Horse Creek has not discharged into Drain.

Discharge of Arkansas River at Granite, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| 1.... | 156 | 130 | 94 | 88 | 76 | 86 | 116 | 885 | 1380 | 527 | 846 | 188 |
| 2.... | 154 | 144 | 100 | 90 | 75 | 82 | 128 | 997 | 1210 | 565 | 738 | 169 |
| 3.... | 152 | 147 | 96 | 85 | 72 | 84 | 142 | 1010 | 1090 | 554 | 731 | 152 |
| 4.... | 147 | 147 | 111 | 82 | 72 | 88 | 144 | 1040 | 1140 | 505 | 731 | 142 |
| 5.... | 132 | 154 | 111 | 78 | 75 | 88 | 140 | 1030 | 1370 | 462 | 731 | 137 |
| 6.... | 137 | 140 | 109 | 80 | 76 | 84 | 132 | 1020 | 1410 | 473 | 391 | 132 |
| 7.... | 183 | 125 | 98 | 85 | *75 | 85 | 118 | 984 | 1210 | 688 | 283 | 154 |
| 8.... | 246 | 147 | 94 | 90 | 74 | 90 | 123 | 801 | 1060 | 859 | 287 | 172 |
| 9.... | 216 | 144 | 98 | 95 | 73 | 90 | 135 | 738 | 957 | 808 | 242 | 177 |
| 10.... | 200 | 140 | 98 | 91 | 72 | 94 | 130 | 840 | 924 | 820 | 232 | 194 |
| 11.... | 256 | 137 | 103 | 88 | 74 | 90 | 128 | 944 | 964 | 878 | 219 | 208 |
| 12.... | 317 | 135 | 100 | 85 | 76 | 89 | 130 | 865 | 904 | 795 | 214 | 180 |
| 13.... | 313 | 123 | 100 | 85 | 78 | 90 | 154 | 924 | 957 | 801 | 211 | 161 |
| 14.... | 214 | 130 | 98 | 84 | 78 | *91 | 174 | 990 | 1140 | 833 | 202 | 180 |
| 15.... | 172 | 135 | 97 | 82 | 75 | 100 | 152 | 1090 | 1170 | 990 | 273 | 177 |
| 16.... | 172 | 200 | 100 | 82 | 75 | 105 | 144 | 1120 | 1060 | 924 | 609 | 166 |
| 17.... | 169 | 186 | 100 | 80 | 77 | 110 | 130 | 1220 | 1020 | 859 | 604 | 149 |
| 18.... | 166 | 164 | 98 | 78 | 79 | 109 | 120 | 1240 | 820 | 769 | 565 | 147 |
| 19.... | 161 | 123 | 97 | 75 | 82 | 114 | 135 | 1370 | 669 | 424 | 559 | 147 |
| 20.... | 159 | 125 | 100 | 76 | 86 | 123 | 144 | 1600 | 615 | 396 | 554 | 140 |
| 21.... | 159 | 125 | 100 | 82 | 86 | 132 | 166 | 1620 | 814 | 377 | 565 | 140 |
| 22.... | 169 | 116 | 95 | 84 | 85 | 132 | 253 | 1620 | 970 | 273 | 559 | 142 |
| 23.... | 169 | 105 | 88 | 80 | 87 | 125 | 462 | 1610 | 1170 | 236 | 538 | 197 |
| 24.... | 172 | 100 | 85 | 80 | 85 | 130 | 457 | 1540 | 1180 | 222 | 527 | 197 |
| 25.... | 177 | 96 | 85 | 78 | 80 | 137 | 473 | 1340 | 1050 | 249 | 511 | 200 |
| 26.... | 174 | 92 | 83 | 79 | 86 | 132 | 565 | 937 | 1000 | 484 | 494 | 194 |
| 27.... | 132 | 80 | 82 | 80 | 88 | 130 | 581 | 808 | 951 | 719 | 313 | 132 |
| 28.... | 132 | 92 | 85 | 80 | 88 | 116 | 676 | 997 | 951 | 788 | 166 | 130 |
| 29.... | 130 | 91 | 87 | 78 | .... | 109 | 744 | 1400 | 924 | 852 | 180 | 128 |
| 30.... | 132 | 105 | 85 | 78 | .... | 105 | 801 | 1400 | 846 | 944 | 188 | 116 |
| 31.... | 130 | .... | 87 | 77 | .... | 107 | .... | 1400 | .... | 938 | 200 | .... |
| Total | 5498 | 3878 | 2964 | 2557 | 2205 | 3247 | 7897 | 35380 | 30926 | 20012 | 13463 | 4838 |
| Mean. | 177 | 129 | 95.6 | 82.5 | 78.8 | 105 | 263 | 1141 | 1031 | 646 | 434 | 161 |
| Max. | 317 | 200 | 111 | 95 | 88 | 137 | 801 | 1620 | 1410 | 990 | 846 | 208 |
| Min. | 130 | 80 | 82 | 75 | 72 | 82 | 116 | 738 | 615 | 222 | 166 | 116 |
| Acre-ft. | 10910 | 7690 | 5880 | 5070 | 4370 | 6440 | 15660 | 70180 | 61340 | 39690 | 26700 | 9600 |

Total run-off for water year 1938-39=263,500 acre-feet.

*Discharge measurement.

Discharge of Arkansas River at Granite, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| 1.... | 107 | 114 | 114 | 68 | 60 | 70 | 96 | 144 | 964 | 505 | 156 | 130 |
| 2.... | 107 | 118 | 64 | 69 | 60 | 70 | 85 | 142 | 1130 | 419 | 156 | 128 |
| 3.... | 100 | 116 | 64 | 70 | 60 | 68 | 78 | 125 | 1150 | 396 | 156 | 125 |
| 4.... | 96 | 105 | 64 | 140 | 60 | 64 | 75 | 166 | 990 | 405 | 154 | 137 |
| 5.... | 92 | 118 | 65 | 160 | 60 | 70 | 80 | 186 | 859 | 364 | 156 | 154 |
| 6.... | 89 | 123 | 65 | 160 | 59 | 65 | 83 | 166 | 676 | 305 | 154 | 144 |
| 7.... | 89 | 114 | 67 | 140 | 59 | 64 | 75 | 205 | 615 | 280 | 186 | 132 |
| 8.... | 94 | 114 | 67 | 100 | 59 | 70 | 72 | 236 | 604 | 263 | 180 | 128 |
| 9.... | 96 | 114 | 67 | 84 | 58 | 71 | 72 | 273 | 891 | 270 | 152 | 132 |
| 10.... | 94 | 105 | 67 | 75 | 58 | 74 | 70 | 328 | 964 | 290 | 144 | 140 |
| 11.... | 94 | 105 | 67 | 73 | 58 | 72 | 65 | 448 | 997 | 280 | 144 | 135 |
| 12.... | 94 | 98 | 67 | 70 | 56 | 72 | 68 | 587 | 997 | 253 | 290 | 123 |
| 13.... | 94 | 87 | 64 | 70 | 55 | 67 | 71 | 581 | 1060 | 211 | 478 | 140 |
| 14.... | 92 | 83 | 65 | 68 | 54 | 70 | 82 | 500 | 885 | 290 | 473 | 142 |
| 15.... | 91 | 83 | 67 | 68 | 54 | 77 | 103 | 419 | 707 | 682 | 452 | 152 |
| 16.... | 89 | 83 | 68 | 67 | 54 | 130 | 85 | 700 | 694 | 725 | 462 | 152 |
| 17.... | 87 | 78 | 68 | 66 | 54 | 132 | 75 | 1020 | 731 | 700 | 473 | 147 |
| 18.... | 85 | 80 | 68 | 65 | 54 | 123 | 92 | 846 | 788 | 663 | 467 | 156 |
| 19.... | 85 | 74 | 68 | 64 | 54 | 80 | 98 | 609 | 744 | 632 | 484 | 149 |
| 20.... | 82 | 77 | 68 | 63 | 54 | 78 | 109 | 713 | 682 | 626 | 527 | 147 |
| 21.... | 80 | 75 | 68 | 63 | 55 | 82 | 116 | 750 | 694 | 626 | 494 | 154 |
| 22.... | 82 | 72 | 68 | 63 | 58 | 87 | 116 | 638 | 814 | 626 | 438 | 174 |
| 23.... | 82 | 74 | 67 | 62 | 60 | 87 | 111 | 452 | 1010 | 581 | 360 | 191 |
| 24.... | 80 | 70 | 66 | 62 | 62 | 85 | 116 | 396 | 957 | 242 | 253 | 256 |
| 25.... | 78 | 68 | 65 | 62 | 64 | 89 | 132 | 433 | 878 | 172 | 154 | 233 |
| 26.... | 92 | 70 | 65 | 62 | 68 | 94 | 159 | 527 | 846 | 174 | 161 | 249 |
| 27.... | 164 | 77 | 64 | 62 | 70 | 91 | 177 | 598 | 827 | 174 | 180 | 225 |
| 28.... | 164 | 123 | 63 | 61 | 70 | 92 | 186 | 604 | 744 | 186 | 177 | 197 |
| 29.... | 172 | 120 | 65 | 61 | 68 | 80 | 186 | 700 | 763 | 216 | 169 | 197 |
| 30.... | 159 | 120 | 65 | 61 | .... | 78 | 183 | 651 | 609 | 253 | 152 | 205 |
| 31.... | 114 | .... | 67 | 61 | .... | 89 | .... | 878 | .... | 194 | 137 | .... |
| Total | 3124 | 2858 | 2097 | 2420 | 1715 | 2541 | 3116 | 15021 | 25270 | 12063 | 8519 | 4924 |
| Mean. | 101 | 95.3 | 67.6 | 78.1 | 59.1 | 82.0 | 104 | 485 | 842 | 387 | 275 | 164 |
| Max. | 172 | 123 | 114 | 160 | 70 | 132 | 186 | 1020 | 1150 | 725 | 527 | 283 |
| Min. | 78 | 68 | 63 | 61 | 54 | 64 | 65 | 125 | 604 | 172 | 137 | 123 |
| Acre-ft. | 6200 | 5670 | 4160 | 4800 | 3400 | 5040 | 6180 | 29790 | 50120 | 23810 | 16900 | 9770 |

Total run-off for water year 1939-40=165,840 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Salida, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.... | 378 | 294 | 280 | 264 | 203 | 206 | 223 | 1040 | 1920 | 939 | 1170 | 331 |
| 2.... | 362 | 298 | 285 | 272 | 206 | 199 | 230 | 1240 | 1720 | 860 | 1050 | 303 |
| 3.... | 357 | 298 | 272 | 268 | 199 | 206 | 237 | 1360 | 1540 | 809 | 904 | 276 |
| 4.... | 362 | 298 | 289 | 264 | 209 | 213 | 244 | 1260 | 1560 | 738 | 895 | 248 |
| 5.... | 357 | 312 | 285 | 237 | 216 | 199 | 252 | 1190 | 1860 | 700 | 921 | 237 |
| 6.... | 357 | 298 | 285 | 252 | 223 | 186 | 256 | 1320 | 2080 | 657 | 801 | 233 |
| 7.... | 485 | 289 | 272 | 256 | 213 | 196 | 240 | 1370 | 1820 | 785 | 485 | 272 |
| 8.... | 636 | 317 | 289 | 268 | 206 | 206 | 230 | 1280 | 1600 | 1020 | 498 | 294 |
| 9.... | 548 | 352 | 289 | 280 | 206 | 220 | 233 | 1160 | 1350 | 1020 | 441 | 321 |
| 10.... | 516 | 362 | 298 | 264 | 189 | 216 | 240 | 1160 | 1300 | 957 | 414 | 383 |
| 11.... | 474 | 352 | 308 | 252 | 189 | 206 | 230 | 1230 | 1280 | 1030 | 368 | 362 |
| 12.... | 568 | 336 | 303 | 252 | 203 | 199 | 226 | 1350 | 1370 | 966 | 347 | 352 |
| 13.... | 575 | 317 | 289 | 248 | 216 | 206 | 233 | 1380 | 1400 | 939 | 342 | 308 |
| 14.... | 548 | 321 | 272 | 237 | 213 | 213 | 272 | 1410 | 1580 | 930 | 336 | 317 |
| 15.... | 399 | 317 | 294 | 233 | 213 | 203 | 280 | 1590 | 1690 | 1090 | 342 | 368 |
| 16.... | 425 | 347 | 317 | 248 | 209 | 206 | 264 | 1680 | 1630 | 1100 | 555 | 347 |
| 17.... | 414 | 404 | 298 | 240 | 216 | 223 | 244 | 1680 | 1520 | 1010 | 715 | 289 |
| 18.... | 394 | 383 | 280 | 226 | 216 | 216 | 244 | 1710 | 1270 | 943 | 694 | 280 |
| 19.... | 378 | 357 | 303 | 230 | 223 | 220 | 252 | 1850 | 1070 | 664 | 694 | 237 |
| 20.... | 368 | 342 | 312 | 237 | 233 | 256 | 260 | 2140 | 921 | 555 | 650 | 233 |
| 21.... | 357 | 336 | 308 | 240 | 230 | 276 | 276 | 2240 | 1020 | 529 | 629 | 226 |
| 22.... | 342 | 298 | 303 | 230 | 230 | 264 | 317 | 2240 | 1250 | 480 | 650 | 252 |
| 23.... | 342 | 289 | 276 | 226 | 226 | 260 | 582 | 2210 | 1320 | 394 | 622 | 276 |
| 24.... | 336 | 256 | 272 | 213 | 213 | 280 | 685 | 2100 | 1430 | 368 | 615 | 244 |
| 25.... | 336 | 276 | 252 | 220 | 199 | 256 | 715 | 1910 | 1400 | 347 | 595 | 321 |
| 26.... | 336 | 260 | 252 | 213 | 209 | 260 | 793 | 1380 | 1310 | 498 | 650 | 368 |
| 27.... | 342 | 264 | 244 | 216 | 220 | 272 | 912 | 1160 | 1230 | 760 | 602 | 326 |
| 28.... | 312 | 256 | 256 | 220 | 213 | 252 | 1020 | 1220 | 1230 | 895 | 414 | 294 |
| 29.... | 312 | 260 | 260 | 216 | .... | 237 | 1030 | 1730 | 1220 | 1050 | 331 | 298 |
| 30.... | 308 | 272 | 252 | 213 | .... | 226 | 1010 | 1810 | 1240 | 1150 | 347 | 298 |
| 31.... | 298 | .... | 260 | 216 | .... | 223 | .... | 1940 | .... | 1130 | 352 | .... |
| Total | 12522 | 9361 | 8755 | 7451 | 5941 | 7001 | 12230 | 48440 | 43131 | 25363 | 18429 | 8944 |
| Mean. | 404 | 312 | 282 | 240 | 212 | 226 | 408 | 1563 | 1433 | 818 | 594 | 298 |
| Max. | 636 | 404 | 317 | 280 | 233 | 280 | 1030 | 2240 | 2080 | 1150 | 1170 | 383 |
| Min. | 298 | 256 | 244 | 213 | 189 | 186 | 223 | 1040 | 921 | 347 | 331 | 226 |
| Ac.-ft. | 24840 | 18570 | 17370 | 14780 | 11780 | 13890 | 24260 | 96080 | 85550 | 50310 | 36550 | 17740 |

Total run-off for water year 1938-39=411,720 acre-feet.

Discharge of Arkansas River at Salida, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| 1.... | 254 | 198 | 243 | 214 | 188 | 204 | 159 | 239 | 1220 | 761 | 275 | 287 |
| 2.... | 228 | 201 | 235 | 194 | 188 | 194 | 169 | 224 | 1350 | 676 | 254 | 266 |
| 3.... | 220 | 204 | 201 | 188 | 188 | 191 | 162 | 224 | 1470 | 612 | 235 | 250 |
| 4.... | 214 | 207 | 204 | 201 | 178 | 191 | 153 | 228 | 1300 | 585 | 250 | 247 |
| 5.... | 214 | 201 | 198 | 279 | 182 | 188 | 159 | 279 | 1060 | 532 | 243 | 243 |
| 6.... | 204 | 210 | 188 | 283 | 182 | 191 | 172 | 287 | 834 | 500 | 243 | 250 |
| 7.... | 198 | 217 | 188 | 275 | 201 | 182 | 169 | 271 | 730 | 429 | 250 | 228 |
| 8.... | 207 | 210 | 188 | 266 | 191 | 185 | 156 | 372 | 730 | 434 | 275 | 217 |
| 9.... | 220 | 217 | 188 | 194 | 185 | 201 | 140 | 382 | 817 | 414 | 258 | 214 |
| 10.... | 217 | 210 | 191 | 207 | 191 | 204 | 140 | 440 | 1080 | 414 | 254 | 231 |
| 11.... | 214 | 204 | 182 | 207 | 204 | 207 | 134 | 565 | 1010 | 398 | 250 | 224 |
| 12.... | 220 | 207 | 182 | 201 | 194 | 191 | 124 | 800 | 1060 | 388 | 247 | 220 |
| 13.... | 220 | 204 | 169 | 201 | 185 | 175 | 127 | 868 | 1120 | 377 | 558 | 224 |
| 14.... | 207 | 194 | 172 | 185 | 194 | 172 | 130 | 834 | 1190 | 351 | 585 | 228 |
| 15.... | 194 | 188 | 182 | 175 | 201 | 182 | 140 | 625 | 932 | 612 | 572 | 224 |
| 16.... | 198 | 185 | 194 | 182 | 198 | 207 | 166 | 676 | 885 | 817 | 578 | 239 |
| 17.... | 204 | 182 | 198 | 188 | 185 | 243 | 156 | 1090 | 817 | 777 | 585 | 231 |
| 18.... | 194 | 182 | 194 | 188 | 191 | 231 | 137 | 1250 | 904 | 745 | 585 | 243 |
| 19.... | 185 | 182 | 178 | 178 | 201 | 214 | 153 | 885 | 942 | 738 | 585 | 250 |
| 20.... | 182 | 182 | 182 | 188 | 185 | 182 | 175 | 842 | 876 | 714 | 612 | 258 |
| 21.... | 185 | 191 | 185 | 185 | 188 | 178 | 172 | 868 | 826 | 777 | 591 | 279 |
| 22.... | 185 | 188 | 178 | 172 | 191 | 182 | 175 | 842 | 826 | 761 | 645 | 258 |
| 23.... | 182 | 185 | 182 | 175 | 191 | 178 | 182 | 738 | 1220 | 792 | 612 | 283 |
| 24.... | 182 | 185 | 185 | 182 | 194 | 175 | 185 | 552 | 1160 | 585 | 532 | 398 |
| 25.... | 182 | 182 | 182 | 188 | 188 | 172 | 182 | 605 | 1110 | 323 | 332 | 469 |
| 26.... | 185 | 178 | 182 | 182 | 201 | 169 | 194 | 722 | 1010 | 292 | 275 | 429 |
| 27.... | 207 | 182 | 175 | 201 | 198 | 172 | 214 | 868 | 1040 | 287 | 279 | 408 |
| 28.... | 231 | 204 | 185 | 198 | 210 | 166 | 239 | 876 | 961 | 283 | 287 | 346 |
| 29.... | 243 | 239 | 169 | 198 | 210 | 162 | 239 | 942 | 952 | 305 | 300 | 296 |
| 30.... | 239 | 250 | 188 | 198 | .... | 146 | 235 | 860 | 923 | 351 | 314 | 296 |
| 31.... | 220 | .... | 220 | 191 | .... | 146 | .... | 1120 | .... | 346 | 337 | .... |
| Total | 6435 | 5969 | 5888 | 6264 | 5583 | 5781 | 5038 | 20374 | 30355 | 16376 | 12198 | 8236 |
| Mean. | 208 | 199 | 190 | 202 | 193 | 186 | 168 | 657 | 1012 | 528 | 393 | 275 |
| Max. | 254 | 250 | 243 | 283 | 210 | 243 | 239 | 1250 | 1470 | 817 | 645 | 469 |
| Min. | 182 | 178 | 169 | 172 | 178 | 146 | 124 | 224 | 730 | 283 | 235 | 214 |
| Ac.-ft. | 12760 | 11840 | 11680 | 12420 | 11070 | 11470 | 9990 | 40410 | 60210 | 32480 | 24190 | 16340 |

Total run-off for water year 1939-40=254,860 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Canon City, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.... | 528 | 362 | 382 | 346 | 262 | 274 | 407 | 979 | 1940 | 1020 | 1040 | 306 |
| 2.... | 436 | 362 | 398 | 342 | 236 | 270 | 407 | 1140 | 1840 | 741 | 1160 | 274 |
| 3.... | 403 | 362 | 390 | 330 | 225 | 255 | 424 | 1290 | 1560 | 733 | 856 | 243 |
| 4.... | 403 | 350 | 374 | 314 | 232 | 247 | 394 | 1260 | 1480 | 677 | 824 | 207 |
| 5.... | 419 | 386 | 370 | 298 | 274 | 225 | 370 | 1150 | 1690 | 603 | 832 | 182 |
| 6.... | 403 | 428 | 362 | 306 | 286 | 240 | 394 | 1240 | 2000 | 565 | 832 | 179 |
| 7.... | 476 | 378 | 358 | 318 | 306 | 236 | 394 | 1310 | 1880 | 565 | 565 | 179 |
| 8.... | 770 | 407 | 354 | 326 | 290 | 236 | 338 | 1260 | 1590 | 785 | 432 | 228 |
| 9.... | 719 | 481 | 370 | 370 | 278 | 225 | 326 | 1130 | 1310 | 952 | 407 | 247 |
| 10.... | 590 | 492 | 370 | 354 | 266 | 251 | 322 | 1090 | 1190 | 880 | 346 | 278 |
| 11.... | 547 | 492 | 386 | 310 | 247 | 262 | 310 | 1100 | 1170 | 880 | 338 | 326 |
| 12.... | 553 | 463 | 378 | 306 | 286 | 266 | 270 | 1240 | 1310 | 916 | 302 | 314 |
| 13.... | 565 | 436 | 362 | 310 | 310 | 286 | 240 | 1280 | 1270 | 848 | 286 | 286 |
| 14.... | 578 | 432 | 330 | 294 | 298 | 310 | 240 | 1310 | 1440 | 832 | 278 | 251 |
| 15.... | 528 | 441 | 350 | 259 | 274 | 286 | 290 | 1420 | 1620 | 889 | 282 | 274 |
| 16.... | 463 | 428 | 382 | 282 | 278 | 286 | 310 | 1580 | 1580 | 1050 | 294 | 290 |
| 17.... | 476 | 467 | 354 | 298 | 259 | 282 | 259 | 1580 | 1470 | 979 | 636 | 262 |
| 18.... | 458 | 467 | 350 | 294 | 274 | 286 | 218 | 1600 | 1320 | 916 | 677 | 214 |
| 19.... | 436 | 450 | 370 | 286 | 298 | 294 | 221 | 1710 | 1080 | 832 | 630 | 203 |
| 20.... | 424 | 432 | 407 | 298 | 314 | 318 | 228 | 1980 | 925 | 497 | 630 | 172 |
| 21.... | 424 | 436 | 374 | 318 | 290 | 366 | 232 | 2210 | 840 | 454 | 578 | 169 |
| 22.... | 415 | 432 | 332 | 298 | 294 | 428 | 243 | 2170 | 1030 | 432 | 584 | 162 |
| 23.... | 407 | 403 | 346 | 286 | 322 | 436 | 294 | 2150 | 1140 | 370 | 578 | 182 |
| 24.... | 403 | 386 | 338 | 270 | 294 | 463 | 691 | 2120 | 1270 | 314 | 553 | 214 |
| 25.... | 403 | 386 | 346 | 274 | 282 | 486 | 712 | 2010 | 1320 | 290 | 534 | 236 |
| 26.... | 403 | 374 | 322 | 274 | 259 | 458 | 756 | 1620 | 1220 | 298 | 565 | 278 |
| 27.... | 419 | 358 | 294 | 270 | 282 | 512 | 872 | 1270 | 1130 | 534 | 597 | 310 |
| 28.... | 415 | 378 | 330 | 290 | 266 | 523 | 880 | 1140 | 1200 | 793 | 476 | 251 |
| 29.... | 403 | 374 | 326 | 282 | .... | 481 | 925 | 1490 | 1110 | 872 | 338 | 236 |
| 30.... | 419 | 382 | 330 | 278 | .... | 481 | 907 | 1900 | 1120 | 1130 | 302 | 240 |
| 31.... | 394 | .... | 338 | 278 | .... | 458 | .... | 1960 | .... | 1190 | 298 | .... |
| Total | 14680 | 12425 | 11123 | 9359 | 7782 | 10427 | 12874 | 46689 | 41045 | 22837 | 17050 | 7193 |
| Mean. | 474 | 414 | 359 | 302 | 278 | 336 | 429 | 1506 | 1368 | 737 | 550 | 240 |
| Max.. | 770 | 492 | 407 | 370 | 322 | 523 | 925 | 2210 | 2000 | 1190 | 1160 | 326 |
| Min.. | 394 | 350 | 294 | 259 | 225 | 225 | 218 | 979 | 840 | 290 | 278 | 162 |
| Acree-ft. | 29120 | 24640 | 22060 | 18560 | 15440 | 20680 | 25540 | 92610 | 81410 | 45300 | 33820 | 14270 |

Total run-off for water year 1938-39=423,400 acre-feet.

Discharge of Arkansas River at Canon City for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| 1.... | 207 | 196 | 251 | 310 | 240 | 302 | 90 | 146 | 1110 | 733 | 282 | 255 |
| 2.... | 169 | 165 | 255 | 306 | 225 | 262 | 102 | 159 | 1200 | 643 | 218 | 218 |
| 3.... | 165 | 162 | 236 | 290 | 220 | 247 | 102 | 159 | 1310 | 559 | 196 | 454 |
| 4.... | 156 | 172 | 207 | 270 | 220 | 221 | 100 | 149 | 1290 | 518 | 179 | 247 |
| 5.... | 146 | 189 | 221 | 290 | 220 | 210 | 96 | 179 | 1070 | 472 | 182 | 165 |
| 6.... | 146 | 189 | 221 | 370 | 220 | 221 | 100 | 270 | 872 | 432 | 179 | 152 |
| 7.... | 146 | 207 | 200 | 354 | 220 | 218 | 108 | 247 | 712 | 411 | 207 | 169 |
| 8.... | 152 | 203 | 186 | 350 | 220 | 207 | 98 | 251 | 656 | 342 | 189 | 189 |
| 9.... | 172 | 193 | 169 | 326 | 220 | 228 | 84 | 334 | 663 | 326 | 179 | 270 |
| 10.... | 182 | 207 | 162 | 270 | 225 | 247 | 82 | 342 | 934 | 302 | 169 | 274 |
| 11.... | 169 | 193 | 159 | 282 | 228 | 274 | 96 | 415 | 925 | 326 | 186 | 193 |
| 12.... | 172 | 186 | 159 | 278 | 240 | 270 | 90 | 571 | 962 | 302 | 189 | 182 |
| 13.... | 182 | 186 | 152 | 278 | 210 | 262 | 84 | 793 | 997 | 362 | 318 | 152 |
| 14.... | 189 | 182 | 156 | 262 | 207 | 282 | 86 | 778 | 1100 | 302 | 559 | 143 |
| 15.... | 162 | 165 | 189 | 240 | 274 | 262 | 84 | 623 | 952 | 338 | 547 | 146 |
| 16.... | 152 | 159 | 200 | 259 | 260 | 302 | 100 | 507 | 848 | 691 | 507 | 146 |
| 17.... | 169 | 140 | 218 | 278 | 240 | 362 | 133 | 808 | 770 | 719 | 523 | 156 |
| 18.... | 179 | 143 | 221 | 290 | 225 | 314 | 123 | 1260 | 785 | 684 | 507 | 156 |
| 19.... | 159 | 143 | 214 | 200 | 240 | 286 | 152 | 1040 | 848 | 636 | 553 | 162 |
| 20.... | 136 | 140 | 200 | 200 | 255 | 247 | 126 | 785 | 832 | 643 | 507 | 172 |
| 21.... | 133 | 165 | 203 | 250 | 235 | 196 | 110 | 832 | 778 | 793 | 523 | 176 |
| 22.... | 140 | 182 | 193 | 260 | 240 | 143 | 106 | 872 | 733 | 763 | 502 | 207 |
| 23.... | 140 | 165 | 196 | 260 | 250 | 152 | 100 | 785 | 916 | 756 | 670 | 193 |
| 24.... | 136 | 165 | 196 | 250 | 260 | 169 | 102 | 597 | 1070 | 643 | 497 | 362 |
| 25.... | 143 | 165 | 218 | 220 | 255 | 140 | 104 | 523 | 1020 | 390 | 415 | 390 |
| 26.... | 156 | 165 | 225 | 250 | 236 | 152 | 104 | 603 | 925 | 259 | 232 | 403 |
| 27.... | 165 | 189 | 210 | 290 | 255 | 121 | 123 | 756 | 916 | 247 | 207 | 330 |
| 28.... | 193 | 200 | 190 | 300 | 270 | 126 | 143 | 840 | 925 | 240 | 207 | 290 |
| 29.... | 221 | 232 | 210 | 290 | 298 | 119 | 159 | 925 | 856 | 247 | 214 | 262 |
| 30.... | 228 | 259 | 230 | 275 | .... | 100 | 146 | 889 | 880 | 294 | 225 | 266 |
| 31.... | 216 | .... | 278 | 255 | .... | 84 | .... | 880 | .... | 318 | 259 | .... |
| Total | 5175 | 5407 | 6325 | 8603 | 6908 | 6726 | 3233 | 18318 | 27845 | 14691 | 10327 | 6850 |
| Mean. | 167 | 180 | 204 | 278 | 238 | 217 | 108 | 591 | 928 | 474 | 333 | 229 |
| Max.. | 228 | 259 | 278 | 370 | 298 | 362 | 159 | 1260 | 1310 | 793 | 670 | 454 |
| Min.. | 133 | 140 | 152 | 200 | 207 | 84 | 82 | 146 | 656 | 240 | 169 | 143 |
| Ac.-ft. | 10260 | 10720 | 12550 | 17060 | 13700 | 13340 | 6410 | 36330 | 55230 | 29140 | 20480 | 13650 |

Total run-off for water year 1939-40=238,870 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Portland, Colo., for Year Ending Sept. 30, 1939

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.... | | | | | | | | | 1990 | 1140 | 1070 | 289 |
| 2.... | | | | | | | | | 1870 | 781 | 1170 | 268 |
| 3.... | | | | | | | | | 1590 | 757 | 900 | 247 |
| 4.... | | | | | | | | | 1440 | 749 | 824 | 235 |
| 5.... | | | | | | | | | 1590 | 630 | 814 | 215 |
| 6.... | | | | | | | | | 1920 | 549 | 843 | 182 |
| 7.... | | | | | | | | | 1920 | 515 | 624 | 175 |
| 8.... | | | | | | | | | 1630 | 749 | 435 | 205 |
| 9.... | | | | | | | | | 1390 | 1000 | 409 | 244 |
| 10.... | | | | | | | | | 1230 | 910 | 345 | 277 |
| 11.... | | | | | | | | | 1230 | 852 | 310 | 324 |
| 12.... | | | | | | | | | 1330 | 940 | 274 | 307 |
| 13.... | | | | | | | | | 1350 | 862 | 265 | 292 |
| 14.... | | | | | | | | | 1470 | 852 | 256 | 259 |
| 15.... | | | | | | | | | 1640 | 910 | 247 | 256 |
| 16.... | | | | | | | | | 1670 | 1090 | 256 | 230 |
| 17.... | | | | | | | | | 1540 | 1050 | 500 | 234 |
| 18.... | | | | | | | | | 1380 | 960 | 630 | 226 |
| 19.... | | | | | | | | | 1150 | 940 | 665 | 220 |
| 20.... | | | | | | | | 1740 | 980 | 537 | 688 | 188 |
| 21.... | | | | | | | | | 843 | 465 | 561 | 178 |
| 22.... | | | | | | | | | 1020 | 450 | 549 | 168 |
| 23.... | | | | | | | | | 1210 | 401 | 543 | 178 |
| 24.... | | | | | | | | | 1320 | 334 | 515 | 211 |
| 25.... | | | | | | | | | 1370 | 307 | 510 | 235 |
| 26.... | | | | | | | | | 1260 | 320 | 515 | 268 |
| 27.... | | | | | | | | | 1160 | 510 | 561 | 301 |
| 28.... | | | | | | | | | 1290 | 824 | 460 | 274 |
| 29.... | | | | | | | | | 1300 | 1170 | 920 | 320 |
| 30.... | | | | | | | | | 1840 | 1180 | 1430 | 295 |
| 31.... | | | | | | | | | 1950 | ..... | 1300 | 292 |
| Total | | | | | | | | | 42133 | 24034 | 16646 | 7189 |
| Mean.. | | | | | | | | | 1404 | 775 | 537 | 240 |
| Max... | | | | | | | | | 1990 | 1430 | 1170 | 324 |
| Min... | | | | | | | | | 843 | 307 | 247 | 168 |
| Acre-ft. | | | | | | | | | 83570 | 47670 | 33020 | 14260 |

Total run-off for water year 1938-39=178,520 acre-feet.

Discharge of Arkansas River at Portland, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.... | 253 | 259 | 283 | 277 | 283 | 292 | 98 | 148 | 1200 | 773 | 295 | 250 |
| 2.... | 199 | 229 | 283 | 286 | 268 | 262 | 103 | 142 | 1290 | 637 | 235 | 217 |
| 3.... | 188 | 229 | 271 | 283 | 241 | 244 | 114 | 148 | 1430 | 567 | 190 | 542 |
| 4.... | 178 | 238 | 232 | 274 | 256 | 190 | 104 | 114 | 1440 | 543 | 172 | 366 |
| 5.... | 175 | 253 | 244 | 286 | 250 | 180 | 100 | 133 | 1150 | 490 | 196 | 205 |
| 6.... | 170 | 244 | 238 | 389 | 244 | 200 | 131 | 220 | 1000 | 425 | 284 | 185 |
| 7.... | 162 | 250 | 226 | 413 | 259 | 214 | 150 | 235 | 733 | 397 | 232 | 178 |
| 8.... | 170 | 253 | 211 | 405 | 271 | 190 | 185 | 241 | 658 | 342 | 178 | 202 |
| 9.... | 188 | 244 | 208 | 385 | 244 | 225 | 178 | 317 | 658 | 314 | 193 | 314 |
| 10.... | 214 | 265 | 217 | 320 | 244 | 256 | 178 | 317 | 890 | 289 | 150 | 612 |
| 11.... | 223 | 256 | 208 | 331 | 265 | 262 | 205 | 365 | 970 | 314 | 175 | 259 |
| 12.... | 220 | 247 | 202 | 334 | 280 | 262 | 193 | 515 | 980 | 298 | 172 | 208 |
| 13.... | 220 | 253 | 190 | 334 | 238 | 232 | 175 | 805 | 1020 | 385 | 226 | 193 |
| 14.... | 232 | 241 | 188 | 304 | 223 | 241 | 136 | 910 | 1110 | 310 | 450 | 226 |
| 15.... | 226 | 229 | 205 | 280 | 286 | 241 | 122 | 741 | 1010 | 280 | 465 | 190 |
| 16.... | 211 | 223 | 226 | 280 | 283 | 253 | 122 | 531 | 940 | 665 | 445 | 185 |
| 17.... | 223 | 205 | 241 | 289 | 253 | 314 | 170 | 789 | 781 | 725 | 475 | 190 |
| 18.... | 229 | 208 | 244 | 271 | 238 | 295 | 162 | 1390 | 757 | 658 | 495 | 196 |
| 19.... | 214 | 205 | 235 | 196 | 271 | 265 | 162 | 1260 | 833 | 611 | 850 | 202 |
| 20.... | 196 | 202 | 223 | 211 | 271 | 253 | 188 | 890 | 824 | 611 | 520 | 202 |
| 21.... | 188 | 208 | 235 | 286 | 238 | 208 | 202 | 980 | 950 | 725 | 510 | 217 |
| 22.... | 188 | 226 | 232 | 280 | 259 | 180 | 196 | 1000 | 773 | 930 | 579 | 268 |
| 23.... | 182 | 229 | 229 | 289 | 274 | 178 | 140 | 900 | 862 | 733 | 680 | 351 |
| 24.... | 182 | 214 | 232 | 274 | 277 | 193 | 126 | 733 | 1180 | 618 | 495 | 417 |
| 25.... | 188 | 214 | 247 | 256 | 262 | 178 | 119 | 585 | 1070 | 465 | 460 | 479 |
| 26.... | 183 | 214 | 253 | 307 | 256 | 178 | 127 | 695 | 960 | 373 | 271 | 460 |
| 27.... | 199 | 226 | 232 | 381 | 265 | 155 | 129 | 881 | 920 | 256 | 217 | 397 |
| 28.... | 211 | 229 | 211 | 381 | 274 | 152 | 150 | 1110 | 940 | 241 | 202 | 381 |
| 29.... | 265 | 247 | 244 | 328 | 295 | 138 | 162 | 1110 | 862 | 259 | 220 | 331 |
| 30.... | 271 | 283 | 247 | 295 | ..... | 122 | 155 | 1040 | 881 | 304 | 223 | 334 |
| 31.... | 265 | ..... | 262 | 289 | ..... | 114 | ..... | 950 | ..... | 334 | 232 | ..... |
| Total | 6418 | 7023 | 7199 | 9514 | 7568 | 6667 | 4482 | 20195 | 29072 | 14872 | 10487 | 8757 |
| Mean.. | 207 | 234 | 232 | 307 | 261 | 215 | 149 | 651 | 969 | 480 | 338 | 292 |
| Max... | 271 | 283 | 283 | 413 | 295 | 314 | 205 | 1390 | 1440 | 930 | 850 | 612 |
| Min... | 162 | 202 | 188 | 196 | 223 | 114 | 98 | 114 | 658 | 241 | 150 | 178 |
| Ac.-ft. | 12730 | 13930 | 14280 | 18870 | 15010 | 13220 | 8890 | 40060 | 57660 | 29500 | 20800 | 17370 |

Total run-off for water year 1939-40=262,320 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River Near Pueblo, Colo., for Year Ending Sept. 30, 1939

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.... | 461 | 422 | 258 | 340 | 322 | 266 | 269 | 975 | 2130 | 944 | 1020 | 279 |
| 2.... | 395 | 408 | 305 | 347 | 329 | 267 | 252 | 1060 | 1880 | 678 | 1120 | 216 |
| 3.... | 292 | 436 | 322 | 322 | 317 | 308 | 269 | 1400 | 1590 | 623 | 873 | 189 |
| 4.... | 276 | 442 | 298 | 334 | 371 | 262 | 252 | 1470 | 1460 | 616 | 775 | 156 |
| 5.... | 276 | 451 | 288 | 346 | 428 | 260 | 244 | 1330 | 1430 | 530 | 701 | 124 |
| 6.... | 288 | 567 | 283 | 217 | 437 | 242 | 264 | 1320 | 1810 | 457 | 720 | 113 |
| 7.... | 269 | 490 | 273 | 241 | 379 | 232 | 301 | 1420 | 1910 | 442 | 641 | 115 |
| 8.... | 534 | 441 | 256 | 238 | 435 | 228 | 269 | 1400 | 1520 | 608 | 389 | 146 |
| 9.... | 704 | 532 | 266 | 311 | 427 | 208 | 239 | 1270 | 1360 | 836 | 321 | 193 |
| 10.... | 573 | 579 | 251 | 345 | 360 | 268 | 239 | 1170 | 1140 | 789 | 273 | 207 |
| 11.... | 518 | 571 | 303 | 283 | 381 | 271 | 239 | 1170 | 1060 | 718 | 238 | 251 |
| 12.... | 450 | 578 | 327 | 309 | 414 | 227 | 223 | 1260 | 1090 | 791 | 194 | 247 |
| 13.... | 553 | 530 | 318 | 287 | 393 | 239 | 192 | 1470 | 1330 | 763 | 163 | 240 |
| 14.... | 553 | 499 | 357 | 311 | 401 | 258 | 174 | 1390 | 1330 | 765 | 155 | 223 |
| 15.... | 527 | 513 | 351 | 357 | 361 | 258 | 239 | 1270 | 1600 | 755 | 152 | 191 |
| 16.... | 423 | 499 | 323 | 228 | 387 | 254 | 270 | 1340 | 1720 | 908 | 164 | 205 |
| 17.... | 401 | 507 | 421 | 262 | 348 | 245 | 239 | 1430 | 1600 | 884 | 251 | 221 |
| 18.... | 429 | 547 | 447 | 286 | 336 | 233 | 216 | 1370 | 1580 | 795 | 518 | 186 |
| 19.... | 435 | 538 | 358 | 286 | 342 | 250 | 198 | 1310 | 1220 | 834 | 565 | 139 |
| 20.... | 392 | 546 | 371 | 307 | 379 | 272 | 198 | 1820 | 886 | 561 | 751 | 140 |
| 21.... | 398 | 479 | 368 | 303 | 358 | 283 | 187 | 2180 | 759 | 399 | 516 | 60 |
| 22.... | 405 | 522 | 388 | 303 | 338 | 306 | 176 | 2120 | 806 | 361 | 497 | 68 |
| 23.... | 376 | 536 | 368 | 298 | 336 | 301 | 170 | 2020 | 1040 | 350 | 504 | 55 |
| 24.... | 368 | 519 | 354 | 296 | 332 | 301 | 334 | 1920 | 1030 | 265 | 482 | 122 |
| 25.... | 430 | 519 | 348 | 295 | 325 | 328 | 502 | 1850 | 1220 | 220 | 512 | 165 |
| 26.... | 458 | 527 | 347 | 290 | 282 | 291 | 570 | 1780 | 1130 | 220 | 473 | 168 |
| 27.... | 462 | 476 | 352 | 286 | 266 | 322 | 630 | 1250 | 1680 | 263 | 506 | 228 |
| 28.... | 431 | 485 | 354 | 301 | 267 | 359 | 749 | 1120 | 1010 | 601 | 498 | 237 |
| 29.... | 423 | 441 | 442 | 302 | .... | 322 | 856 | 1110 | 1060 | 752 | 376 | 196 |
| 30.... | 437 | 309 | 426 | 281 | .... | 317 | 877 | 1510 | 945 | 931 | 352 | 172 |
| 31.... | 422 | .... | 365 | 306 | .... | 305 | .... | 1710 | .... | 1410 | 343 | .... |
| Total | 13359 | 14909 | 10488 | 9218 | 10052 | 8483 | 9837 | 45215 | 39756 | 20059 | 15043 | 5267 |
| Mean. | 431 | 497 | 338 | 297 | 359 | 274 | 328 | 1459 | 1325 | 647 | 485 | 176 |
| Max.. | 704 | 579 | 447 | 357 | 437 | 359 | 877 | 2180 | 2130 | 1410 | 1120 | 279 |
| Min.. | 269 | 309 | 251 | 217 | 266 | 208 | 170 | 975 | 759 | 220 | 152 | 55 |
| Acre-ft. | 26500 | 29570 | 20800 | 18280 | 19940 | 16830 | 19510 | 89680 | 78850 | 39790 | 29840 | 10450 |

Total run-off for water year 1938-39=400,000 acre-feet.

Discharge of Arkansas River Near Pueblo, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| 1.... | 181 | 187 | 213 | 204 | 362 | 213 | 20 | 84 | 994 | 658 | 186 | 233 |
| 2.... | 142 | 151 | 201 | 285 | 311 | 207 | 26 | 93 | 1100 | 552 | 140 | 223 |
| 3.... | 127 | 134 | 199 | 218 | 312 | 219 | 29 | 80 | 1270 | 648 | 124 | 199 |
| 4.... | 125 | 142 | 164 | 189 | 296 | 200 | 42 | 79 | 1340 | 471 | 83 | 903 |
| 5.... | 111 | 156 | 148 | 178 | 285 | 150 | 48 | 83 | 1180 | 493 | 78 | 210 |
| 6.... | 110 | 155 | 152 | 158 | 297 | 172 | 58 | 101 | 936 | 384 | 107 | 176 |
| 7.... | 135 | 146 | 152 | 286 | 287 | 155 | 90 | 172 | 748 | 339 | 299 | 124 |
| 8.... | 117 | 158 | 135 | 297 | 338 | 149 | 99 | 163 | 609 | 348 | 48 | 118 |
| 9.... | 136 | 159 | 128 | 294 | 347 | 148 | 104 | 197 | 633 | 227 | 52 | 185 |
| 10.... | 157 | 167 | 127 | 291 | 290 | 193 | 92 | 250 | 716 | 195 | 35 | 703 |
| 11.... | 174 | 173 | 218 | 289 | 333 | 220 | 115 | 254 | 884 | 166 | 27 | 320 |
| 12.... | 174 | 169 | 204 | 279 | 395 | 237 | 123 | 359 | 876 | 217 | 53 | 211 |
| 13.... | 163 | 165 | 195 | 267 | 356 | 196 | 117 | 613 | 977 | 255 | 41 | 199 |
| 14.... | 168 | 151 | 178 | 271 | 287 | 194 | 125 | 806 | 1040 | 292 | 240 | 298 |
| 15.... | 147 | 147 | 191 | 271 | 411 | 206 | 68 | 778 | 1050 | 200 | 362 | 247 |
| 16.... | 133 | 137 | 212 | 311 | 360 | 194 | 49 | 562 | 941 | 386 | 394 | 165 |
| 17.... | 122 | 125 | 224 | 357 | 249 | 237 | 78 | 602 | 826 | 625 | 379 | 154 |
| 18.... | 131 | 130 | 228 | 327 | 250 | 282 | 104 | 1060 | 678 | 541 | 446 | 167 |
| 19.... | 123 | 122 | 230 | 178 | 222 | 231 | 89 | 1100 | 727 | 559 | 686 | 174 |
| 20.... | 104 | 130 | 223 | 113 | 244 | 204 | 104 | 893 | 727 | 593 | 691 | 158 |
| 21.... | 91 | 132 | 221 | 135 | 221 | 156 | 137 | 776 | 689 | 588 | 494 | 153 |
| 22.... | 88 | 140 | 240 | 244 | 211 | 119 | 133 | 741 | 802 | 885 | 588 | 190 |
| 23.... | 78 | 155 | 253 | 236 | 237 | 102 | 121 | 796 | 715 | 615 | 578 | 246 |
| 24.... | 72 | 151 | 261 | 278 | 252 | 114 | 42 | 755 | 1090 | 569 | 502 | 698 |
| 25.... | 86 | 139 | 233 | 225 | 244 | 119 | 42 | 530 | 980 | 469 | 432 | 383 |
| 26.... | 108 | 140 | 221 | 191 | 214 | 110 | 44 | 554 | 934 | 304 | 346 | 567 |
| 27.... | 113 | 137 | 198 | 311 | 196 | 101 | 50 | 721 | 821 | 285 | 212 | 385 |
| 28.... | 115 | 148 | 176 | 264 | 201 | 90 | 64 | 976 | 815 | 168 | 184 | 331 |
| 29.... | 155 | 158 | 168 | 316 | 184 | 68 | 92 | 1250 | 767 | 143 | 177 | 287 |
| 30.... | 202 | 182 | 145 | 364 | .... | 56 | 94 | 867 | 736 | 122 | 198 | 254 |
| 31.... | 206 | .... | 166 | 414 | .... | 21 | .... | 777 | .... | 186 | 216 | .... |
| Total | 4094 | 4486 | 6004 | 8041 | 8192 | 5063 | 2399 | 17072 | 26601 | 12483 | 8398 | 8499 |
| Mean. | 132 | 150 | 194 | 259 | 282 | 163 | 80.0 | 551 | 887 | 403 | 271 | 233 |
| Max.. | 206 | 187 | 261 | 414 | 411 | 282 | 137 | 1250 | 1340 | 885 | 691 | 903 |
| Min.. | 72 | 122 | 127 | 113 | 184 | 21 | 20 | 79 | 609 | 122 | 27 | 118 |
| Acre-ft. | 8120 | 8900 | 11910 | 15950 | 16250 | 10040 | 4760 | 33860 | 52760 | 24760 | 16660 | 16860 |

Total run-off for water year 1939-40=220,830 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River Near Avondale, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | | | | | | | | 1150 | 2080 | 1280 | 1240 | 272 |
| 2 | | | | | | | | 1240 | 2240 | 962 | 1530 | 256 |
| 3 | | | | | | | | 1400 | 1720 | 720 | 1390 | 244 |
| 4 | | | | | | | | 1600 | 1620 | 668 | 962 | 200 |
| 5 | | | | | | | | 1620 | 1580 | 652 | 899 | 159 |
| 6 | | | | | | | | 1520 | 1740 | 512 | 888 | 148 |
| 7 | | | | | | | | 1580 | 1910 | 464 | 855 | 145 |
| 8 | | | | | | | | 1580 | 1600 | 464 | 533 | 139 |
| 9 | | | | | | | | 1500 | 1520 | 822 | 394 | 139 |
| 10 | | | | | | | | 1400 | 1260 | 844 | 344 | 180 |
| 11 | | | | | | | | 1420 | 1240 | 780 | 306 | 224 |
| 12 | | | | | | | | 1400 | 1260 | 790 | 248 | 280 |
| 13 | | | | | | | | 1440 | 1320 | 800 | 212 | 252 |
| 14 | | | | | | | | 1650 | 1390 | 760 | 208 | 240 |
| 15 | | | | | | | | 1550 | 1600 | 790 | 208 | 216 |
| 16 | | | | | | | | 1470 | 1570 | 910 | 204 | 232 |
| 17 | | | | | | | | 1710 | 1580 | 1010 | 204 | 256 |
| 18 | | | | | | | | 1620 | 1440 | 923 | 434 | 228 |
| 19 | | | | | | | | 1870 | 1180 | 888 | 526 | 188 |
| 20 | | | | | | | | 1830 | 936 | 750 | 780 | 173 |
| 21 | | | | | | | | 1980 | 800 | 434 | 636 | 159 |
| 22 | | | | | | | | 2140 | 780 | 372 | 572 | 145 |
| 23 | | | | | | | | 1850 | 1010 | 355 | 564 | 133 |
| 24 | | | | | | | | 2000 | 1170 | 306 | 556 | 133 |
| 25 | | | | | | | | 1800 | 1340 | 244 | 596 | 145 |
| 26 | | | | | | | | 2040 | 1390 | 224 | 612 | 196 |
| 27 | | | | | | | | 1070 | 1320 | 216 | 526 | 228 |
| 28 | | | | | | | | 1290 | 1170 | 440 | 540 | 260 |
| 29 | | | | | | | | 1230 | 1470 | 811 | 452 | 244 |
| 30 | | | | | | | | 1710 | 1260 | 910 | 328 | 224 |
| 31 | | | | | | | | 2000 | ..... | 1650 | 491 | ..... |
| Total | | | | | | | | 49660 | 42496 | 21751 | 18238 | 6038 |
| Mean | | | | | | | | 1602 | 1417 | 702 | 588 | 201 |
| Max. | | | | | | | | 2140 | 2240 | 1650 | 1530 | 280 |
| Min. | | | | | | | | 1070 | 780 | 216 | 204 | 133 |
| Ac.-ft. | | | | | | | | 98500 | 84290 | 43140 | 36170 | 11980 |

Total run-off for water year 1938-39=274,100 acre-feet.

Discharge of Arkansas River Near Avondale, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 196 | 220 | 228 | 344 | 458 | 338 | 60 | 94 | 1180 | 899 | 333 | 192 |
| 2 | 192 | 200 | 236 | 344 | 394 | 388 | 50 | 95 | 1290 | 780 | 264 | 173 |
| 3 | 184 | 176 | 232 | 360 | 388 | 355 | 65 | 92 | 1440 | 899 | 220 | 162 |
| 4 | 180 | 173 | 228 | 382 | 388 | 344 | 115 | 90 | 1580 | 636 | 152 | 1520 |
| 5 | 176 | 176 | 192 | 350 | 422 | 311 | 118 | 92 | 1690 | 692 | 92 | 292 |
| 6 | 173 | 188 | 204 | 256 | 399 | 311 | 133 | 95 | 1530 | 512 | 88 | 162 |
| 7 | 170 | 184 | 204 | 300 | 404 | 292 | 159 | 133 | 1240 | 416 | 236 | 130 |
| 8 | 170 | 176 | 200 | 360 | 404 | 292 | 180 | 216 | 910 | 422 | 244 | 102 |
| 9 | 166 | 184 | 188 | 372 | 410 | 276 | 196 | 188 | 692 | 311 | 188 | 80 |
| 10 | 166 | 192 | 180 | 382 | 382 | 280 | 184 | 232 | 750 | 268 | 127 | 2040 |
| 11 | 173 | 196 | 220 | 410 | 404 | 333 | 220 | 236 | 1110 | 200 | 110 | 452 |
| 12 | 184 | 204 | 248 | 399 | 422 | 344 | 232 | 272 | 1000 | 240 | 102 | 354 |
| 13 | 180 | 196 | 236 | 399 | 382 | 296 | 220 | 434 | 1070 | 244 | 98 | 264 |
| 14 | 176 | 184 | 232 | 322 | 360 | 284 | 204 | 660 | 1100 | 272 | 88 | 366 |
| 15 | 188 | 184 | 236 | 316 | 416 | 296 | 180 | 710 | 1200 | 192 | 306 | 512 |
| 16 | 160 | 184 | 248 | 292 | 470 | 268 | 136 | 564 | 910 | 410 | 377 | 240 |
| 17 | 145 | 176 | 268 | 377 | 410 | 256 | 162 | 512 | 949 | 604 | 360 | 196 |
| 18 | 150 | 166 | 272 | 366 | 360 | 311 | 184 | 1030 | 700 | 588 | 491 | 184 |
| 19 | 155 | 159 | 272 | 252 | 360 | 296 | 180 | 1290 | 750 | 548 | 649 | 188 |
| 20 | 145 | 159 | 276 | 240 | 388 | 260 | 178 | 1100 | 790 | 564 | 1630 | 180 |
| 21 | 138 | 166 | 268 | 196 | 377 | 244 | 178 | 910 | 750 | 604 | 498 | 176 |
| 22 | 132 | 156 | 264 | 236 | 372 | 208 | 176 | 1000 | 899 | 1010 | 620 | 204 |
| 23 | 127 | 170 | 268 | 236 | 394 | 180 | 170 | 988 | 692 | 676 | 790 | 256 |
| 24 | 124 | 184 | 260 | 244 | 410 | 176 | 140 | 877 | 1000 | 644 | 652 | 730 |
| 25 | 132 | 170 | 268 | 236 | 382 | 188 | 80 | 636 | 1050 | 484 | 533 | 612 |
| 26 | 136 | 166 | 284 | 240 | 366 | 170 | 70 | 588 | 1000 | 416 | 440 | 740 |
| 27 | 140 | 173 | 228 | 260 | 344 | 173 | 75 | 790 | 910 | 484 | 300 | 533 |
| 28 | 155 | 180 | 228 | 355 | 360 | 152 | 82 | 1290 | 888 | 173 | 280 | 434 |
| 29 | 170 | 184 | 192 | 428 | 328 | 145 | 94 | 3250 | 910 | 159 | 256 | 377 |
| 30 | 212 | 196 | 240 | 452 | ..... | 127 | 97 | 1960 | 866 | 1510 | 236 | 333 |
| 31 | 236 | ..... | 311 | 446 | ..... | 124 | ..... | 1520 | ..... | 410 | 212 | ..... |
| Total | 5131 | 5422 | 7411 | 10152 | 11354 | 8018 | 4318 | 21944 | 30846 | 16267 | 10972 | 12185 |
| Mean | 166 | 181 | 239 | 327 | 392 | 259 | 144 | 708 | 1028 | 525 | 354 | 406 |
| Max. | 236 | 220 | 311 | 452 | 470 | 388 | 232 | 3250 | 1690 | 1510 | 1630 | 2040 |
| Min. | 124 | 156 | 180 | 196 | 328 | 124 | 50 | 90 | 692 | 159 | 88 | 80 |
| Ac.-ft. | 10180 | 10750 | 14700 | 20140 | 22520 | 15900 | 8560 | 43530 | 61180 | 32270 | 21760 | 24170 |

Total run-off for water year 1939-40=285,700 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River Near Nepesta, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. | 565 | 416 | 242 | 169 | 186 | 110 | 464 | 506 | 1690 | 538 | 457 | 191 |
| 2. | 529 | 389 | 286 | 140 | 184 | 184 | 384 | 520 | 1460 | 457 | 411 | 158 |
| 3. | 394 | 374 | 416 | 120 | 212 | 186 | 341 | 676 | 1280 | 547 | 850 | 151 |
| 4. | 311 | 405 | 283 | 100 | 181 | 151 | 320 | 798 | 1220 | 478 | 341 | 123 |
| 5. | 311 | 389 | 220 | 52 | 212 | 153 | 324 | 772 | 1120 | 464 | 220 | 100 |
| 6. | 316 | 583 | 257 | 151 | 234 | 60 | 360 | 709 | 1340 | 374 | 257 | 78 |
| 7. | 300 | 506 | 251 | 169 | 257 | 50 | 433 | 882 | 1520 | 300 | 234 | 64 |
| 8. | 365 | 471 | 236 | 217 | 226 | 60 | 450 | 914 | 1220 | 332 | 179 | 74 |
| 9. | 914 | 632 | 236 | 332 | 200 | 70 | 360 | 811 | 1260 | 350 | 286 | 88 |
| 10. | 798 | 733 | 202 | 279 | 200 | 200 | 360 | 610 | 914 | 269 | 212 | 112 |
| 11. | 733 | 592 | 199 | 228 | 190 | 250 | 279 | 654 | 746 | 248 | 215 | 125 |
| 12. | 610 | 621 | 239 | 248 | 179 | 200 | 276 | 798 | 698 | 194 | 162 | 138 |
| 13. | 485 | 632 | 220 | 266 | 170 | 100 | 248 | 978 | 798 | 228 | 110 | 158 |
| 14. | 464 | 654 | 153 | 155 | 150 | 248 | 248 | 1050 | 811 | 199 | 88 | 169 |
| 15. | 428 | 687 | 204 | 155 | 60 | 457 | 316 | 962 | 898 | 189 | 74 | 174 |
| 16. | 464 | 565 | 181 | 100 | 240 | 513 | 687 | 1100 | 1100 | 209 | 79 | 179 |
| 17. | 422 | 621 | 184 | 75 | 428 | 428 | 547 | 1540 | 1120 | 389 | 79 | 164 |
| 18. | 450 | 643 | 185 | 40 | 440 | 360 | 506 | 1500 | 978 | 389 | 85 | 174 |
| 19. | 464 | 676 | 190 | 30 | 500 | 303 | 416 | 1600 | 811 | 286 | 76 | 153 |
| 20. | 471 | 698 | 160 | 40 | 270 | 303 | 379 | 1840 | 632 | 286 | 416 | 121 |
| 21. | 450 | 746 | 145 | 65 | 60 | 324 | 365 | 2080 | 687 | 365 | 196 | 112 |
| 22. | 433 | 824 | 136 | 80 | 40 | 389 | 345 | 2280 | 520 | 324 | 110 | 94 |
| 23. | 411 | 824 | 136 | 212 | 45 | 478 | 350 | 1890 | 471 | 263 | 107 | 82 |
| 24. | 411 | 574 | 132 | 212 | 65 | 538 | 316 | 1690 | 471 | 248 | 119 | 83 |
| 25. | 439 | 500 | 121 | 194 | 75 | 601 | 279 | 1770 | 574 | 184 | 78 | 76 |
| 26. | 478 | 419 | 121 | 162 | 70 | 485 | 389 | 2550 | 654 | 164 | 207 | 90 |
| 27. | 492 | 415 | 181 | 169 | 60 | 428 | 405 | 1180 | 621 | 144 | 66 | 82 |
| 28. | 444 | 350 | 169 | 167 | 80 | 574 | 471 | 994 | 478 | 167 | 70 | 110 |
| 29. | 416 | 345 | 263 | 220 | .... | 478 | 574 | 994 | 583 | 162 | 100 | 107 |
| 30. | 411 | 303 | 212 | 254 | .... | 450 | 538 | 1220 | 643 | 245 | 90 | 138 |
| 31. | 422 | .... | 289 | 191 | .... | 471 | .... | 1580 | .... | 547 | 276 | .... |
| Total | 14601 | 16587 | 6439 | 4992 | 5214 | 9602 | 11730 | 37448 | 27318 | 9539 | 6250 | 3668 |
| Mean... | 471 | 553 | 208 | 161 | 186 | 310 | 391 | 1208 | 911 | 308 | 202 | 122 |
| Max... | 914 | 824 | 416 | 332 | 500 | 601 | 687 | 2550 | 1690 | 547 | 850 | 191 |
| Min... | 300 | 303 | 121 | 30 | 40 | 50 | 248 | 506 | 471 | 144 | 66 | 64 |
| Acre-ft. | 28960 | 32900 | 12770 | 9900 | 10340 | 19050 | 23270 | 74280 | 54180 | 18920 | 12400 | 7280 |

Total run-off for water year 1938-39=304,200 acre-feet.

Discharge of Arkansas River Near Nepesta, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|
| 1. | 146 | 136 | 144 | 200 | 255 | 283 | 72 | 66 | 956 | 380 | 279 | 80 |
| 2. | 125 | 141 | 167 | 215 | 250 | 362 | 45 | 66 | 1160 | 510 | 267 | 110 |
| 3. | 120 | 149 | 155 | 230 | 260 | 348 | 55 | 62 | 1190 | 818 | 198 | 96 |
| 4. | 70 | 125 | 170 | 220 | 245 | 317 | 62 | 66 | 1100 | 561 | 198 | 1070 |
| 5. | 56 | 136 | 158 | 215 | 212 | 312 | 68 | 62 | 1230 | 579 | 98 | 365 |
| 6. | 58 | 152 | 155 | 190 | 192 | 292 | 92 | 45 | 1120 | 494 | 48 | 232 |
| 7. | 67 | 155 | 158 | 170 | 158 | 264 | 112 | 62 | 972 | 345 | 160 | 85 |
| 8. | 69 | 146 | 146 | 180 | 152 | 242 | 140 | 174 | 626 | 345 | 189 | 26 |
| 9. | 93 | 158 | 141 | 185 | 164 | 202 | 167 | 196 | 606 | 279 | 122 | 20 |
| 10. | 91 | 179 | 146 | 200 | 176 | 212 | 174 | 170 | 678 | 198 | 37 | 2030 |
| 11. | 100 | 173 | 155 | 210 | 170 | 307 | 218 | 209 | 517 | 149 | 30 | 615 |
| 12. | 122 | 176 | 189 | 218 | 192 | 338 | 218 | 218 | 456 | 117 | 17 | 370 |
| 13. | 122 | 170 | 173 | 215 | 235 | 283 | 237 | 293 | 456 | 126 | 18 | 300 |
| 14. | 125 | 152 | 170 | 211 | 322 | 278 | 196 | 565 | 525 | 144 | 12 | 413 |
| 15. | 125 | 167 | 176 | 208 | 411 | 269 | 189 | 660 | 570 | 222 | 18 | 988 |
| 16. | 98 | 186 | 192 | 215 | 500 | 246 | 150 | 706 | 699 | 425 | 16 | 282 |
| 17. | 91 | 212 | 196 | 222 | 376 | 212 | 185 | 489 | 699 | 174 | 16 | 169 |
| 18. | 84 | 205 | 205 | 208 | 317 | 205 | 205 | 471 | 646 | 112 | 56 | 102 |
| 19. | 103 | 192 | 227 | 160 | 292 | 241 | 170 | 950 | 615 | 78 | 192 | 104 |
| 20. | 103 | 182 | 242 | 170 | 317 | 205 | 140 | 992 | 748 | 66 | 892 | 104 |
| 21. | 103 | 199 | 212 | 200 | 292 | 200 | 133 | 648 | 748 | 124 | 222 | 83 |
| 22. | 91 | 192 | 199 | 210 | 288 | 185 | 156 | 525 | 860 | 279 | 157 | 222 |
| 23. | 86 | 144 | 176 | 202 | 338 | 150 | 156 | 516 | 646 | 340 | 419 | 149 |
| 24. | 77 | 158 | 185 | 211 | 362 | 112 | 153 | 412 | 615 | 213 | 239 | 818 |
| 25. | 69 | 144 | 200 | 180 | 397 | 118 | 115 | 516 | 525 | 98 | 133 | 657 |
| 26. | 73 | 144 | 180 | 205 | 312 | 137 | 72 | 471 | 525 | 166 | 108 | 988 |
| 27. | 96 | 144 | 150 | 220 | 333 | 127 | 66 | 671 | 479 | 720 | 88 | 390 |
| 28. | 100 | 155 | 146 | 240 | 259 | 118 | 64 | 1020 | 360 | 385 | 42 | 370 |
| 29. | 115 | 164 | 154 | 270 | 307 | 100 | 53 | 2750 | 380 | 133 | 63 | 275 |
| 30. | 117 | 158 | 180 | 290 | .... | 92 | 59 | 1360 | 315 | 940 | 49 | 310 |
| 31. | 136 | .... | 195 | 280 | .... | 89 | .... | 1170 | .... | 305 | 58 | .... |
| Total | 3031 | 4894 | 5442 | 6550 | 8084 | 6846 | 3922 | 16581 | 21022 | 9825 | 4441 | 11823 |
| Mean... | 97.8 | 163 | 176 | 211 | 279 | 221 | 131 | 535 | 701 | 317 | 143 | 394 |
| Max... | 146 | 212 | 242 | 290 | 500 | 362 | 237 | 2750 | 1230 | 940 | 892 | 2030 |
| Min... | 56 | 125 | 141 | 160 | 152 | 89 | 45 | 45 | 315 | 66 | 12 | 20 |
| Acre-ft. | 6010 | 9710 | 10790 | 12990 | 16300 | 13580 | 7780 | 32890 | 41700 | 19490 | 8810 | 23450 |

Total run-off for water year 1939-40=203,230 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at La Junta, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 252 | 218 | 186 | 111 | 110 | 108 | 28 | 275 | 674 | 256 | 148 | 53 |
| 2.... | 430 | 216 | 184 | 135 | 71 | 108 | 123 | 229 | 557 | 324 | 188 | 28 |
| 3.... | 270 | 277 | 189 | 102 | 65 | 111 | 127 | 236 | 1720 | 152 | 612 | 15 |
| 4.... | 225 | 285 | 158 | 97 | 47 | 108 | 129 | 332 | 667 | 122 | 404 | 28 |
| 5.... | 119 | 324 | 156 | 101 | 51 | 104 | 54 | 494 | 489 | 116 | 158 | 32 |
| 6.... | 97 | 316 | 174 | 96 | 76 | 108 | 64 | 458 | 448 | 96 | 90 | 52 |
| 7.... | 94 | 260 | 172 | 101 | 74 | 135 | 59 | 643 | 635 | 57 | 81 | 60 |
| 8.... | 134 | 257 | 142 | 131 | 63 | 131 | 38 | 607 | 642 | 46 | 65 | 60 |
| 9.... | 273 | 122 | 149 | 128 | 64 | 150 | 46 | 586 | 475 | 164 | 29 | 59 |
| 10.... | 444 | 60 | 135 | 134 | 79 | 137 | 80 | 465 | 450 | 94 | 44 | 58 |
| 11.... | 475 | 37 | 123 | 122 | 78 | 154 | 71 | 471 | 465 | 71 | 61 | 59 |
| 12.... | 450 | 46 | 124 | 119 | 94 | 154 | 70 | 559 | 414 | 53 | 61 | 58 |
| 13.... | 350 | 43 | 138 | 133 | 86 | 83 | 86 | 552 | 518 | 33 | 74 | 66 |
| 14.... | 310 | 40 | 129 | 149 | 80 | 21 | 104 | 586 | 611 | 27 | 66 | 68 |
| 15.... | 236 | 123 | 118 | 115 | 52 | 17 | 59 | 546 | 588 | 27 | 59 | 75 |
| 16.... | 221 | 124 | 126 | 108 | 40 | 13 | 99 | 489 | 583 | 40 | 64 | 81 |
| 17.... | 204 | 99 | 124 | 111 | 39 | 19 | 397 | 514 | 596 | 40 | 57 | 79 |
| 18.... | 175 | 80 | 122 | 117 | 150 | 19 | 386 | 465 | 473 | 37 | 48 | 80 |
| 19.... | 156 | 87 | 124 | 102 | 91 | 19 | 250 | 636 | 533 | 42 | 146 | 74 |
| 20.... | 186 | 97 | 132 | 113 | 79 | 18 | 164 | 587 | 576 | 34 | 728 | 69 |
| 21.... | 175 | 92 | 130 | 124 | 73 | 36 | 140 | 652 | 385 | 41 | 180 | 56 |
| 22.... | 211 | 113 | 126 | 128 | 86 | 109 | 102 | 637 | 294 | 44 | 88 | 61 |
| 23.... | 188 | 115 | 128 | 148 | 64 | 114 | 87 | 622 | 177 | 48 | 51 | 59 |
| 24.... | 143 | 126 | 111 | 198 | 46 | 129 | 82 | 490 | 128 | 57 | 9 | 66 |
| 25.... | 134 | 104 | 105 | 142 | 110 | 161 | 32 | 674 | 228 | 81 | 20 | 64 |
| 26.... | 138 | 253 | 91 | 138 | 111 | 203 | 14 | 1330 | 146 | 72 | 20 | 53 |
| 27.... | 161 | 410 | 90 | 145 | 99 | 220 | 14 | 233 | 220 | 61 | 24 | 53 |
| 28.... | 212 | 381 | 87 | 144 | 101 | 33 | 26 | 442 | 244 | 58 | 30 | 51 |
| 29.... | 244 | 306 | 83 | 128 | .... | 25 | 41 | 530 | 171 | 58 | 35 | 58 |
| 30.... | 235 | 244 | 91 | 125 | .... | 19 | 135 | 283 | 372 | 56 | 44 | 67 |
| 31.... | 211 | .... | 110 | 145 | .... | 30 | .... | 354 | .... | 50 | .... | .... |
| Total | 7153 | 5255 | 4057 | 3890 | 2179 | 2796 | 3107 | 15977 | 14479 | 2457 | 3739 | 1742 |
| Mean.. | 231 | 175 | 131 | 125 | 77.8 | 90.2 | 104 | 515 | 483 | 79.3 | 121 | 58.1 |
| Max... | 475 | 410 | 189 | 198 | 150 | 220 | 397 | 1330 | 1720 | 324 | 728 | 81 |
| Min... | 94 | 37 | 83 | 96 | 39 | 13 | 14 | 229 | 128 | 27 | 9 | 15 |
| Acre-ft. | 14190 | 10420 | 8050 | 7720 | 4320 | 5550 | 6160 | 31690 | 28720 | 4870 | 7420 | 3460 |

Total run-off for water year 1938-39=132,600 acre-feet.

Discharge of Arkansas River at La Junta, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|--------|-------|--------|--------|--------|--------|-------|--------|-------|------|--------|--------|
| 1.... | 69 | 7.4 | 9.4 | 39 | 131 | 20 | 13 | 33 | 394 | 35 | 199 | 54 |
| 2.... | 64 | 8.1 | 4.9 | 64 | 99 | 72 | 7.4 | 34 | 934 | 71 | 82 | 58 |
| 3.... | 55 | 7.4 | 3.6 | 124 | 63 | 67 | 8.1 | 21 | 697 | 67 | 28 | 59 |
| 4.... | 55 | 7.4 | 3.6 | 115 | 45 | 67 | 11 | 23 | 614 | 124 | 20 | 84 |
| 5.... | 46 | 5.5 | 2.8 | 86 | 37 | 48 | 6.8 | 30 | 314 | 76 | 33 | 489 |
| 6.... | 42 | 5.5 | 3.3 | 66 | 30 | 48 | 19 | 30 | 294 | 73 | 37 | 71 |
| 7.... | 40 | 6.2 | 3.6 | 158 | 28 | 88 | 12 | 35 | 275 | 57 | 46 | 4.7 |
| 8.... | 39 | 6.2 | 3.1 | 80 | 22 | 67 | 11 | 41 | 314 | 55 | 33 | 9.6 |
| 9.... | 49 | 7.4 | 6.8 | 54 | 15 | 35 | 5.5 | 14 | 265 | 37 | 36 | 14 |
| 10.... | 47 | 7.4 | 8.7 | 47 | 11 | 19 | 23 | 8.7 | 121 | 46 | 39 | 761 |
| 11.... | 45 | 6.2 | 7.4 | 64 | 14 | 21 | 23 | 25 | 91 | 49 | 42 | 61 |
| 12.... | 41 | 6.2 | 3.3 | 62 | 11 | 28 | 23 | 23 | 101 | 51 | 44 | 39 |
| 13.... | 40 | 5.5 | 11 | 76 | 11 | 93 | 22 | 30 | 115 | 51 | 42 | 86 |
| 14.... | 52 | 9.4 | 30 | 57 | 8.7 | 156 | 21 | 36 | 113 | 55 | 36 | 113 |
| 15.... | 53 | 12 | 22 | 28 | 3.3 | 106 | 16 | 94 | 92 | 62 | 36 | 364 |
| 16.... | 47 | 12 | 23 | 15 | 5.5 | 82 | 17 | 205 | 142 | 67 | 39 | 319 |
| 17.... | 45 | 13 | 28 | 12 | 3.3 | 42 | 46 | 226 | 152 | 93 | 40 | 57 |
| 18.... | 40 | 15 | 33 | 20 | 3.6 | 27 | 64 | 437 | 242 | 117 | 78 | 34 |
| 19.... | 36 | 14 | 45 | 29 | 14 | 16 | 76 | 294 | 170 | 46 | 168 | 9.6 |
| 20.... | 31 | 19 | 59 | 79 | 11 | 40 | 13 | 462 | 530 | 46 | 142 | 8.8 |
| 21.... | 28 | 17 | 60 | 57 | 8.7 | 67 | 6.2 | 462 | 128 | 53 | 152 | 7.1 |
| 22.... | 24 | 11 | 55 | 31 | 46 | 36 | 8.1 | 324 | 148 | 66 | 18 | 7.1 |
| 23.... | 16 | 11 | 71 | 22 | 63 | 48 | 7.4 | 184 | 238 | 60 | 7.1 | 8.8 |
| 24.... | 9.4 | 20 | 100 | 58 | 82 | 41 | 8.7 | 162 | 123 | 91 | 33 | 27 |
| 25.... | 5.5 | 19 | 97 | 35 | 126 | 27 | 7.4 | 107 | 75 | 91 | 22 | 663 |
| 26.... | 4.2 | 40 | 86 | 48 | 158 | 13 | 23 | 178 | 64 | 102 | 20 | 339 |
| 27.... | 4.9 | 36 | 72 | 10 | 117 | 11 | 32 | 152 | 23 | 325 | 27 | 456 |
| 28.... | 5.5 | 8.1 | 66 | 1.3 | 90 | 10 | 27 | 68 | 30 | 310 | 40 | 280 |
| 29.... | 5.5 | 3.3 | 71 | 2.8 | 67 | 5.5 | 32 | 679 | 58 | 122 | 48 | 117 |
| 30.... | 5.5 | 12 | 45 | 3.3 | .... | 16 | 35 | 280 | 57 | 108 | 54 | 91 |
| 31.... | 5.5 | .... | 49 | 28 | .... | 16 | .... | 344 | .... | 544 | .... | .... |
| Total | 1050.0 | 358.2 | 1083.5 | 1571.4 | 1327.1 | 1422.5 | 624.6 | 5041.7 | 6914 | 3150 | 1697.1 | 4691.7 |
| Mean.. | 33.9 | 11.9 | 35.0 | 50.7 | 45.8 | 46.2 | 20.8 | 163 | 230 | 102 | 54.7 | 156 |
| Max... | 69 | 40 | 100 | 158 | 158 | 156 | 76 | 679 | 934 | 544 | 199 | 761 |
| Min... | 4.2 | 3.3 | 2.8 | 1.3 | 3.3 | 5.5 | 5.5 | 8.7 | 23 | 35 | 7.1 | 4.7 |
| Acre-ft. | 2080 | 710 | 2150 | 3120 | 2630 | 2840 | 1240 | 10000 | 13710 | 6250 | 3370 | 9310 |

Total run-off for water year 1939-40=57,410 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Las Animas, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1..... | 31 | 14 | 20 | 66 | 56 | 51 | 14 | 14 | 324 | 13 | 177 | 11 |
| 2..... | 33 | 14 | 20 | 59 | 171 | 51 | 14 | 14 | 405 | 13 | 70 | 13 |
| 3..... | 29 | 14 | 20 | 53 | 194 | 68 | 14 | 14 | 442 | 14 | 29 | 22 |
| 4..... | 28 | 14 | 19 | 99 | 136 | 62 | 14 | 13 | 459 | 14 | 17 | 36 |
| 5..... | 30 | 14 | 22 | 112 | 128 | 60 | 14 | 14 | 442 | 66 | 13 | 176 |
| 6..... | 31 | 14 | 24 | 246 | 112 | 65 | 13 | 17 | 226 | 16 | 11 | 64 |
| 7..... | 32 | 14 | 27 | 99 | 112 | 68 | 12 | 18 | 240 | 17 | 10 | 25 |
| 8..... | 32 | 14 | 30 | 86 | 101 | 65 | 12 | 21 | 308 | 17 | 10 | 23 |
| 9..... | 39 | 14 | 32 | 81 | 80 | 65 | 11 | 23 | 262 | 27 | 8 | 23 |
| 10..... | 40 | 14 | 29 | 49 | 78 | 58 | 14 | 13 | 262 | 16 | 9 | 220 |
| 11..... | 39 | 14 | 26 | 51 | 75 | 58 | 19 | 11 | 117 | 27 | 17 | 681 |
| 12..... | 39 | 14 | 21 | 63 | 59 | 59 | 24 | 12 | 65 | 26 | 39 | 40 |
| 13..... | 39 | 14 | 18 | 71 | 54 | 60 | 29 | 12 | 52 | 20 | 45 | 37 |
| 14..... | 36 | 14 | 15 | 81 | 50 | 68 | 17 | 12 | 40 | 14 | 43 | 43 |
| 15..... | 36 | 15 | 16 | 67 | 48 | 95 | 22 | 12 | 40 | 13 | 44 | 59 |
| 16..... | 34 | 16 | 18 | 42 | 46 | 71 | 28 | 21 | 40 | 11 | 42 | 299 |
| 17..... | 34 | 16 | 18 | 37 | 45 | 46 | 68 | 144 | 56 | 13 | 30 | 115 |
| 18..... | 36 | 15 | 18 | 40 | 49 | 43 | 70 | 220 | 82 | 52 | 25 | 35 |
| 19..... | 34 | 15 | 17 | 123 | 50 | 41 | 50 | 233 | 153 | 65 | 73 | 21 |
| 20..... | 36 | 15 | 22 | 52 | 52 | 36 | 78 | 223 | 70 | 40 | 97 | 17 |
| 21..... | 37 | 15 | 24 | 42 | 54 | 32 | 70 | 312 | 36 | 30 | 146 | 18 |
| 22..... | 31 | 16 | 37 | 41 | 56 | 24 | 52 | 292 | 31 | 25 | 44 | 16 |
| 23..... | 25 | 17 | 56 | 43 | 64 | 19 | 40 | 164 | 60 | 18 | 17 | 12 |
| 24..... | 18 | 18 | 69 | 41 | 73 | 17 | 28 | 124 | 130 | 26 | 14 | 14 |
| 25..... | 18 | 19 | 59 | 40 | 103 | 17 | 18 | 111 | 52 | 45 | 12 | 276 |
| 26..... | 18 | 19 | 141 | 41 | 132 | 16 | 17 | 78 | 40 | 45 | 11 | 338 |
| 27..... | 15 | 18 | 63 | 43 | 132 | 15 | 17 | 207 | 33 | 169 | 10 | 453 |
| 28..... | 14 | 25 | 79 | 45 | 101 | 14 | 15 | 186 | 24 | 213 | 8 | 342 |
| 29..... | 14 | 20 | 56 | 46 | 56 | 12 | 14 | 242 | 21 | 105 | 10 | 204 |
| 30..... | 14 | 20 | 59 | 43 | .... | 14 | 14 | 822 | 16 | 45 | 11 | 156 |
| 31..... | 14 | .... | 67 | 46 | .... | 14 | .... | 312 | .... | 350 | 12 | .... |
| Total | 906 | 475 | 1142 | 2048 | 2467 | 1384 | 822 | 3911 | 4528 | 1565 | 1109 | 3789 |
| Mean.. | 29.2 | 15.8 | 36.8 | 66.1 | 85.1 | 44.6 | 27.4 | 126 | 151 | 50.5 | 35.8 | 126 |
| Max.. | 40 | 25 | 141 | 246 | 194 | 95 | 78 | 822 | 459 | 350 | 177 | 681 |
| Min.. | 14 | 14 | 15 | 40 | 45 | 12 | 11 | 11 | 16 | 11 | 8 | 11 |
| Acre-ft. 1800 | 942 | 2270 | 4060 | 4890 | 2750 | 1630 | 7760 | 8980 | 3100 | 2200 | 7520 | |

Total run-off for water year 1939-40=47,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Caddoa, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|------|-------|------|-------|-------|------|-------|-------|
| 1.... | 248 | 210 | 340 | 168 | 156 | 190 | 111 | 60 | 668 | 1080 | 125 | 41 |
| 2.... | 232 | 198 | 320 | 168 | 168 | 195 | 133 | 115 | 736 | 844 | 138 | 32 |
| 3.... | 375 | 225 | 315 | 180 | 110 | 200 | 185 | 196 | 572 | 514 | 138 | 28 |
| 4.... | 270 | 270 | 312 | 180 | 110 | 200 | 202 | 202 | 488 | 352 | 232 | 23 |
| 5.... | 225 | 270 | 278 | 146 | 136 | 210 | 142 | 274 | 572 | 198 | 286 | 22 |
| 6.... | 162 | 348 | 312 | 140 | 126 | 245 | 128 | 283 | 540 | 81 | 277 | 21 |
| 7.... | 118 | 348 | 285 | 140 | 136 | 291 | 146 | 402 | 604 | 38 | 125 | 24 |
| 8.... | 112 | 396 | 255 | 162 | 143 | 308 | 146 | 478 | 700 | 30 | 44 | 24 |
| 9.... | 115 | 375 | 240 | 192 | 125 | 308 | 137 | 528 | 636 | 306 | 30 | 29 |
| 10.... | 348 | 262 | 255 | 198 | 130 | 308 | 115 | 540 | 462 | 241 | 18 | 30 |
| 11.... | 504 | 174 | 240 | 204 | 145 | 317 | 133 | 515 | 398 | 103 | 15 | 32 |
| 12.... | 459 | 150 | 210 | 218 | 165 | 308 | 142 | 454 | 398 | 38 | 14 | 32 |
| 13.... | 417 | 143 | 198 | 204 | 170 | 308 | 142 | 478 | 376 | 16 | 12 | 30 |
| 14.... | 348 | 136 | 198 | 204 | 165 | 291 | 128 | 478 | 449 | 15 | 21 | 29 |
| 15.... | 212 | 129 | 198 | 218 | 150 | 238 | 137 | 515 | 604 | 12 | 30 | 30 |
| 16.... | 248 | 143 | 198 | 168 | 146 | 224 | 115 | 501 | 572 | 5 | 16 | 41 |
| 17.... | 225 | 150 | 240 | 143 | 108 | 163 | 92 | 488 | 572 | 7 | 631 | 53 |
| 18.... | 210 | 129 | 262 | 126 | 186 | 168 | 267 | 514 | 556 | 58 | 87 | 53 |
| 19.... | 204 | 115 | 248 | 132 | 240 | 157 | 238 | 423 | 501 | 44 | 12 | 44 |
| 20.... | 204 | 136 | 262 | 146 | 156 | 137 | 216 | 588 | 501 | 18 | 1080 | 41 |
| 21.... | 204 | 150 | 255 | 168 | 140 | 128 | 174 | 572 | 488 | 12 | 1490 | 41 |
| 22.... | 204 | 174 | 240 | 198 | 140 | 120 | 137 | 652 | 387 | 10 | 674 | 35 |
| 23.... | 204 | 186 | 225 | 192 | 125 | 163 | 106 | 668 | 306 | 9 | 392 | 32 |
| 24.... | 255 | 175 | 218 | 186 | 110 | 245 | 89 | 540 | 152 | 12 | 196 | 38 |
| 25.... | 210 | 190 | 218 | 204 | 140 | 283 | 76 | 540 | 72 | 107 | 120 | 41 |
| 26.... | 192 | 230 | 186 | 174 | 160 | 351 | 65 | 1820 | 103 | 69 | 96 | 44 |
| 27.... | 180 | 300 | 174 | 180 | 190 | 381 | 60 | 1560 | 92 | 23 | 102 | 44 |
| 28.... | 180 | 380 | 180 | 192 | 200 | 360 | 56 | 398 | 114 | 33 | 238 | 35 |
| 29.... | 218 | 430 | 192 | 192 | .... | 231 | 56 | 387 | 175 | 30 | 92 | 33 |
| 30.... | 248 | 390 | 180 | 162 | .... | 180 | 53 | 652 | 341 | 40 | 60 | 33 |
| 31.... | 248 | .... | 168 | 156 | .... | 133 | .... | 604 | .... | 92 | 51 | .... |
| Total | 7679 | 6912 | 7402 | 5441 | 4176 | 7341 | 3927 | 16425 | 13135 | 4437 | 6842 | 1035 |
| Mean.. | 248 | 230 | 239 | 176 | 149 | 237 | 131 | 530 | 438 | 143 | 221 | 34.5 |
| Max.. | 504 | 430 | 340 | 218 | 240 | 381 | 267 | 1820 | 736 | 1080 | 1490 | 53 |
| Min.. | 112 | 115 | 168 | 126 | 108 | 120 | 53 | 60 | 72 | 5 | 12 | 21 |
| Acre-ft. | 15230 | 13710 | 14680 | 10790 | 8280 | 14560 | 7790 | 32580 | 26050 | 8800 | 13570 | 2050 |

Total run-off for water year 1938-39=168,100 acre-feet.

Discharge of Arkansas River at Caddoa, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 40 | 23 | 63 | 202 | 58 | 158 | 50 | 33 | 450 | 25 | 222 | 10 |
| 2.... | 41 | 23 | 53 | 180 | 76 | 177 | 45 | 31 | 373 | 29 | 115 | 9 |
| 3.... | 43 | 27 | 46 | 180 | 86 | 173 | 35 | 29 | 533 | 87 | 62 | 8 |
| 4.... | 40 | 27 | 46 | 202 | 99 | 163 | 33 | 29 | 470 | 58 | 40 | 17 |
| 5.... | 40 | 26 | 43 | 191 | 111 | 135 | 31 | 24 | 1050 | 40 | 35 | 41 |
| 6.... | 43 | 25 | 40 | 137 | 128 | 124 | 33 | 22 | 561 | 54 | 68 | 131 |
| 7.... | 46 | 26 | 35 | 102 | 146 | 108 | 45 | 22 | 382 | 28 | 46 | 42 |
| 8.... | 51 | 28 | 32 | 86 | 128 | 116 | 45 | 77 | 346 | 19 | 27 | 15 |
| 9.... | 56 | 29 | 32 | 102 | 163 | 109 | 42 | 60 | 533 | 27 | 17 | 9 |
| 10.... | 58 | 33 | 30 | 92 | 180 | 87 | 42 | 47 | 1930 | 27 | 13 | 31 |
| 11.... | 63 | 33 | 28 | 68 | 168 | 70 | 60 | 35 | 1360 | 18 | 18 | 3460 |
| 12.... | 60 | 33 | 26 | 65 | 157 | 58 | 70 | 29 | 500 | 27 | 18 | 824 |
| 13.... | 58 | 33 | 28 | 80 | 202 | 63 | 63 | 28 | 282 | 22 | 27 | 315 |
| 14.... | 51 | 30 | 32 | 86 | 174 | 60 | 53 | 28 | 192 | 31 | 24 | 276 |
| 15.... | 48 | 29 | 33 | 96 | 128 | 108 | 37 | 28 | 149 | 31 | 19 | 153 |
| 16.... | 48 | 29 | 36 | 76 | 137 | 108 | 35 | 26 | 100 | 18 | 19 | 334 |
| 17.... | 48 | 29 | 32 | 70 | 124 | 101 | 60 | 73 | 75 | 22 | 316 | 328 |
| 18.... | 56 | 29 | 30 | 65 | 120 | 94 | 83 | 194 | 80 | 11 | 448 | 169 |
| 19.... | 58 | 32 | 40 | 65 | 157 | 83 | 120 | 242 | 112 | 30 | 307 | 94 |
| 20.... | 60 | 33 | 43 | 65 | 202 | 63 | 112 | 194 | 118 | 31 | 638 | 72 |
| 21.... | 58 | 40 | 63 | 65 | 192 | 58 | 144 | 230 | 72 | 21 | 266 | 48 |
| 22.... | 56 | 41 | 51 | 65 | 182 | 58 | 242 | 310 | 47 | 19 | 177 | 40 |
| 23.... | 51 | 43 | 186 | 63 | 172 | 58 | 177 | 296 | 56 | 82 | 87 | 30 |
| 24.... | 44 | 41 | 252 | 63 | 162 | 58 | 154 | 450 | 153 | 38 | 120 | 30 |
| 25.... | 40 | 40 | 274 | 60 | 152 | 55 | 124 | 269 | 131 | 25 | 120 | 86 |
| 26.... | 36 | 48 | 308 | 60 | 142 | 55 | 87 | 290 | 77 | 27 | 83 | 448 |
| 27.... | 29 | 59 | 360 | 58 | 132 | 50 | 66 | 283 | 50 | 409 | 53 | 402 |
| 28.... | 28 | 80 | 308 | 51 | 122 | 60 | 53 | 930 | 38 | 266 | 28 | 380 |
| 29.... | 26 | 80 | 260 | 51 | 112 | 66 | 47 | 511 | 30 | 156 | 20 | 293 |
| 30.... | 26 | 86 | 209 | 46 | .... | 70 | 47 | 1020 | 25 | 97 | 17 | 216 |
| 31.... | 26 | .... | 260 | 53 | .... | 70 | .... | 430 | .... | 216 | 15 | .... |
| Total | 1428 | 1135 | 3279 | 2850 | 4112 | 2816 | 2235 | 6220 | 10275 | 1991 | 3455 | 8311 |
| Mean.. | 46.1 | 37.8 | 106 | 91.9 | 142 | 90.8 | 74.5 | 200 | 342 | 64.2 | 111 | 277 |
| Max.. | 63 | 86 | 360 | 202 | 202 | 177 | 242 | 1020 | 1930 | 409 | 638 | 3460 |
| Min.. | 26 | 23 | 26 | 46 | 58 | 50 | 31 | 22 | 25 | 11 | 13 | 8 |
| Acre-ft. | 2830 | 2250 | 6500 | 5650 | 8160 | 5590 | 4430 | 12320 | 20380 | 3950 | 6850 | 16480 |

Total run-off for water year 1939-40=95,390 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Lamar, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1..... | 7.9 | 3.2 | 126 | 18 | 7.0 | 44 | 9.4 | 7.9 | 12 | 22 | 5.0 | 5.0 |
| 2..... | 7.5 | 3.2 | 37 | 6.7 | 8.3 | 41 | 13 | 15 | 10 | 5.0 | 2.4 | 4.4 |
| 3..... | 7.1 | 3.6 | 32 | 5.4 | 16 | 50 | 13 | 23 | 6.3 | 3.0 | 36 | 3.8 |
| 4..... | 5.6 | 3.3 | 8.9 | 6.4 | 12 | 66 | 6.8 | 12 | 5.5 | 1.6 | 62 | 7.4 |
| 5..... | 4.0 | 3.2 | 6.0 | 9.6 | 10 | 56 | 6.3 | 15 | 5.2 | 1.8 | 60 | 4.1 |
| 6..... | 3.0 | 3.6 | 4.2 | 8.6 | 10 | 53 | 5.5 | 13 | 5.2 | 1.8 | 60 | 4.1 |
| 7..... | 3.0 | 3.0 | 4.4 | 8.3 | 8.3 | 77 | 5.2 | 12 | 5.5 | 1.4 | 56 | 3.8 |
| 8..... | 3.0 | 3.0 | 4.4 | 10 | 7.3 | 50 | 5.2 | 12 | 5.8 | 2.2 | 25 | 3.3 |
| 9..... | 3.2 | 14 | 4.7 | 12 | 16 | 30 | 4.7 | 10 | 8.9 | 2.0 | 5.5 | 2.8 |
| 10..... | 3.8 | 18 | 4.0 | 11 | 16 | 31 | 4.7 | 8.9 | 4.4 | 5.2 | 2.8 | 2.6 |
| 11..... | 9.6 | 7.5 | 3.7 | 9.6 | 16 | 23 | 5.5 | 8.4 | 3.8 | 16 | 2.4 | .8 |
| 12..... | 6.2 | 5.6 | 3.5 | 14 | 16 | 20 | 7.4 | 5.2 | 3.6 | 16 | 2.2 | 1.0 |
| 13..... | 5.6 | 5.0 | 3.5 | 10 | 18 | 22 | 8.9 | 6.3 | 3.8 | 13 | 2.0 | 1.0 |
| 14..... | 4.8 | 4.3 | 4.0 | 18 | 23 | 30 | 9.4 | 5.8 | 4.7 | 5.8 | 2.4 | .7 |
| 15..... | 4.8 | 3.8 | 4.9 | 50 | 41 | 30 | 8.9 | 8.4 | 4.1 | 4.4 | 1.8 | .7 |
| 16..... | 5.0 | 3.8 | 12 | 41 | 20 | 25 | 8.4 | 5.0 | 3.8 | 3.3 | 1.8 | 1.0 |
| 17..... | 5.3 | 4.0 | 7.3 | 14 | 20 | 20 | 7.9 | 3.8 | 3.3 | 3.3 | 6.8 | 2.0 |
| 18..... | 5.3 | 4.0 | 11 | 12 | 20 | 20 | 8.4 | 3.8 | 4.4 | 2.8 | 4.7 | 2.4 |
| 19..... | 3.0 | 4.0 | 30 | 8.9 | 15 | 5.8 | 7.9 | 5.0 | 4.1 | 7.4 | 5.2 | 2.4 |
| 20..... | 3.0 | 4.3 | 27 | 9.6 | 12 | 5.8 | 8.4 | 4.4 | 5.8 | 5.0 | 6.2 | 2.0 |
| 21..... | 3.0 | 4.6 | 26 | 10 | 155 | 18 | 7.9 | 3.8 | 19 | 2.8 | 3.0 | 1.8 |
| 22..... | 3.2 | 4.0 | 45 | 8.3 | 101 | 18 | 7.4 | 5.2 | 17 | 1.8 | 2.0 | 1.8 |
| 23..... | 2.8 | 3.2 | 62 | 7.3 | 44 | 18 | 6.8 | 5.2 | 22 | 1.6 | 2.2 | 1.8 |
| 24..... | 2.8 | 6.6 | 133 | 6.4 | 30 | 18 | 5.8 | 3.6 | 20 | 1.4 | 8.9 | 1.8 |
| 25..... | 2.8 | 15 | 116 | 6.7 | 42 | 18 | 5.8 | 3.6 | 22 | 3.3 | 10 | 1.8 |
| 26..... | 4.3 | 11 | 92 | 10 | 33 | 17 | 5.8 | 62 | 20 | 5.5 | 10 | 2.2 |
| 27..... | 3.8 | 15 | 111 | 14 | 14 | 18 | 5.0 | 83 | 22 | 4.4 | 7.9 | 2.6 |
| 28..... | 3.6 | 20 | 136 | 8.3 | 26 | 30 | 5.0 | 18 | 21 | 4.1 | 12 | 2.8 |
| 29..... | 3.6 | 102 | 113 | 8.0 | .... | 35 | 4.7 | 10 | 23 | 3.3 | 24 | 2.2 |
| 30..... | 3.8 | 136 | 118 | 8.0 | .... | 30 | 5.2 | 8.9 | 14 | 2.6 | 15 | 2.6 |
| 31..... | 3.6 | .... | 57 | 7.3 | .... | 17 | .... | 6.8 | .... | 2.0 | 10 | .... |
| Total | 138.0 | 421.8 | 1347.5 | 377.4 | 756.9 | 936.6 | 214.3 | 395.0 | 310.2 | 155.6 | 581.6 | 77.1 |
| Mean | 4.45 | 14.1 | 43.5 | 12.2 | 27.0 | 30.2 | 7.14 | 12.7 | 10.3 | 5.02 | 18.8 | 2.57 |
| Max. | 9.6 | 136 | 136 | 50 | 155 | 77 | 13 | 83 | 23 | 22 | 62 | 7.4 |
| Min. | 2.8 | 3.0 | 3.5 | 5.4 | 7.3 | 5.8 | 4.7 | 3.6 | 3.3 | 1.4 | 1.8 | .7 |
| Acre-ft. | 274 | 837 | 2670 | 749 | 1500 | 1860 | 425 | 783 | 615 | 309 | 1150 | 153 |

Total run-off for water year 1938-39=11,320 acre-feet.

Discharge of Arkansas River at Lamar, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|-------|-------|-------|------|-------|--------|-------|--------|--------|
| 1..... | 2.2 | 2.2 | 2.4 | 2.6 | 5.2 | 5.2 | 2.2 | 2.4 | 17 | 4.0 | 108 | 1.0 |
| 2..... | 2.2 | 1.6 | 2.8 | 2.8 | 5.2 | 24 | 2.4 | 2.6 | 14 | 3.1 | 73 | 1.0 |
| 3..... | 2.2 | 1.8 | 2.8 | 3.0 | 5.2 | 6.8 | 2.4 | 2.6 | 14 | 2.5 | 52 | 1.3 |
| 4..... | 2.4 | 1.8 | 3.0 | 3.0 | 5.2 | 6.3 | 2.4 | 2.6 | 14 | 12 | 30 | 0.9 |
| 5..... | 2.4 | 1.8 | 3.6 | 3.0 | 5.5 | 6.8 | 2.4 | 2.2 | 124 | 9.0 | 25 | 0.9 |
| 6..... | 2.4 | 2.2 | 4.4 | 3.0 | 5.5 | 7.4 | 2.4 | 1.8 | 397 | 3.7 | 29 | 1.9 |
| 7..... | 2.6 | 2.4 | 3.8 | 3.0 | 5.2 | 5.8 | 2.4 | 1.8 | 34 | 3.7 | 46 | 1.0 |
| 8..... | 2.6 | 2.6 | 3.8 | 3.0 | 6.3 | 6.3 | 2.4 | 3.0 | 32 | 1.9 | 42 | 0.8 |
| 9..... | 2.6 | 2.6 | 3.6 | 3.8 | 6.3 | 6.8 | 2.4 | 2.0 | 13 | 3.4 | 17 | 0.7 |
| 10..... | 2.6 | 3.0 | 3.3 | 3.8 | 4.1 | 5.5 | 2.4 | 2.0 | 132 | 1.6 | 12 | 4.0 |
| 11..... | 2.6 | 3.0 | 3.0 | 3.3 | 4.4 | 5.5 | 2.4 | 1.9 | 1270 | 1.6 | 9.0 | 724 |
| 12..... | 2.6 | 2.8 | 2.8 | 3.3 | 7.9 | 5.5 | 2.4 | 2.2 | 156 | 1.6 | 6.5 | 342 |
| 13..... | 4.1 | 2.8 | 2.6 | 3.8 | 8.4 | 5.8 | 2.4 | 2.2 | 33 | 1.6 | 9.0 | 37 |
| 14..... | 4.1 | 2.6 | 2.6 | 5.2 | 5.8 | 5.5 | 2.4 | 2.4 | 21 | 1.6 | 4.0 | 20 |
| 15..... | 4.1 | 2.8 | 2.6 | 6.3 | 5.2 | 5.2 | 2.4 | 2.4 | 6 | 1.6 | 6.5 | 11 |
| 16..... | 4.1 | 2.6 | 2.6 | 5.8 | 4.7 | 5.2 | 2.4 | 2.8 | 2 | 1.6 | 6.5 | 10 |
| 17..... | 4.4 | 2.4 | 2.6 | 3.8 | 2.2 | 4.4 | 2.6 | 3.3 | 2 | 0.9 | 6.5 | 7.5 |
| 18..... | 4.1 | 2.4 | 2.8 | 3.8 | 3.6 | 4.1 | 2.8 | 3.3 | 2 | 0.7 | 39 | 5.8 |
| 19..... | 3.8 | 2.4 | 2.8 | 3.0 | 3.3 | 3.8 | 5.2 | 3.0 | 2 | 0.7 | 116 | 5.8 |
| 20..... | 3.0 | 2.2 | 2.8 | 3.0 | 3.6 | 3.6 | 2.6 | 3.3 | 2 | 0.7 | 255 | 5.0 |
| 21..... | 1.6 | 2.2 | 2.8 | 3.5 | 4.4 | 3.6 | 2.6 | 3.6 | 2 | 1.9 | 8.0 | 4.6 |
| 22..... | 1.8 | 2.2 | 3.6 | 3.5 | 4.4 | 3.3 | 2.6 | 2.4 | 3.1 | 2.5 | 4.5 | 3.8 |
| 23..... | 1.6 | 2.0 | 4.1 | 3.5 | 3.0 | 3.0 | 2.6 | 2.6 | 2.8 | 1.6 | 4.5 | 5.0 |
| 24..... | 1.6 | 2.0 | 3.3 | 3.5 | 3.3 | 3.0 | 2.6 | 2.6 | 2.5 | 12 | 7.0 | 4.0 |
| 25..... | 1.4 | 2.0 | 3 | 3.0 | 3.8 | 2.8 | 2.6 | 2.6 | 21 | 7.5 | 34 | 3.0 |
| 26..... | 1.0 | 2.0 | 3 | 3.5 | 5.0 | 2.8 | 2.6 | 2.5 | 16 | 6.5 | 33 | 3.0 |
| 27..... | 2.8 | 2.2 | 3 | 5.2 | 4.4 | 2.8 | 2.6 | 16 | 12 | 21 | 13 | 3.0 |
| 28..... | 2.8 | 2.4 | 2 | 4.4 | 3.8 | 2.8 | 2.6 | 185 | 9.0 | 24 | 3.7 | 3.8 |
| 29..... | 2.6 | 2.4 | 3 | 5.2 | 3.6 | 2.4 | 2.6 | 73 | 6.5 | 48 | 2.8 | 2.8 |
| 30..... | 2.6 | 2.4 | 3 | 6.3 | .... | 2.2 | 2.0 | 146 | 4.5 | 48 | 2.8 | 3.8 |
| 31..... | 2.2 | .... | 2.8 | 6.8 | .... | 2.2 | .... | 26 | .... | 48 | 2.8 | .... |
| Total | 83.1 | 69.8 | 94.3 | 120.7 | 138.5 | 160.4 | 76.8 | 512.0 | 2366.4 | 278.5 | 1008.1 | 1218.4 |
| Mean | 2.68 | 2.33 | 3.04 | 3.89 | 4.78 | 5.17 | 2.56 | 16.5 | 78.9 | 8.98 | 32.5 | 40.6 |
| Max. | 4.4 | 3.0 | 4.4 | 6.8 | 8.4 | 24 | 5.2 | 185 | 1270 | 48 | 255 | 724 |
| Min. | 1.0 | 1.6 | 2.0 | 2.6 | 2.2 | 2.2 | 2.0 | 1.8 | 2 | 0.7 | 2.8 | 0.7 |
| Acre-ft. | 165 | 138 | 187 | 239 | 275 | 318 | 152 | 1020 | 4690 | 552 | 2000 | 2420 |

Total run-off for water year 1939-40=12,160 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Holly, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|-------|------|-------|------|------|-------|-------|-------|-------|
| 1.... | 24 | 52 | 205 | 144 | 102 | 130 | 138 | 29 | 62 | 27 | 2.4 | 6.0 |
| 2.... | 21 | 54 | 198 | 140 | 92 | 130 | 102 | 28 | 89 | 114 | 1.8 | 5.6 |
| 3.... | 28 | 67 | 143 | 140 | 99 | 135 | 96 | 32 | 53 | 67 | 2.0 | 5.6 |
| 4.... | 19 | 75 | 109 | 140 | 106 | 146 | 89 | 31 | 46 | 22 | 1.8 | 5.6 |
| 5.... | 36 | 89 | 198 | 135 | 99 | 150 | 82 | 30 | 36 | 14 | 1.4 | 6.4 |
| 6.... | 50 | 96 | 138 | 140 | 92 | 160 | 92 | 31 | 21 | 13 | 2.0 | 6.4 |
| 7.... | 44 | 75 | 121 | 150 | 96 | 200 | 99 | 23 | 15 | 11 | 7.6 | 4.2 |
| 8.... | 40 | 127 | 89 | 160 | 64 | 250 | 82 | 26 | 8.8 | 11 | 1.6 | 3.8 |
| 9.... | 67 | 159 | 92 | 170 | 69 | 300 | 89 | 22 | 10 | 10 | 1.6 | 2.7 |
| 10.... | 26 | 143 | 89 | 170 | 51 | 329 | 78 | 21 | 12 | 10 | 1.2 | 2.0 |
| 11.... | 22 | 138 | 64 | 180 | 64 | 350 | 64 | 21 | 12 | 7.6 | 1.8 | 1.6 |
| 12.... | 16 | 99 | 109 | 180 | 71 | 350 | 58 | 23 | 11 | 2.0 | 1.4 | 1.1 |
| 13.... | 28 | 85 | 102 | 180 | 89 | 402 | 58 | 28 | 7.9 | 1.6 | 1.0 | 0.8 |
| 14.... | 34 | 80 | 73 | 184 | 127 | 610 | 58 | 28 | 5.6 | 1.4 | 1.0 | 1.0 |
| 15.... | 22 | 82 | 89 | 181 | 82 | 389 | 56 | 29 | 4.5 | 1.2 | 1.0 | 1.8 |
| 16.... | 34 | 80 | 82 | 181 | 170 | 428 | 60 | 35 | 4.9 | 1.0 | 1.0 | 4.2 |
| 17.... | 37 | 82 | 89 | 180 | 212 | 198 | 62 | 55 | 4.5 | 0.8 | 0.6 | 6.0 |
| 18.... | 31 | 75 | 85 | 180 | 127 | 184 | 58 | 31 | 4.5 | 1.6 | 0.5 | 7.2 |
| 19.... | 34 | 73 | 102 | 180 | 184 | 132 | 50 | 26 | 3.8 | 1.0 | 0.4 | 7.2 |
| 20.... | 36 | 75 | 89 | 185 | 191 | 109 | 54 | 28 | 2.7 | 1.1 | 0.4 | 6.8 |
| 21.... | 37 | 73 | 99 | 185 | 165 | 109 | 54 | 28 | 2.4 | 1.2 | 28 | 5.6 |
| 22.... | 42 | 69 | 92 | 190 | 113 | 138 | 31 | 25 | 3.1 | 1.4 | 18 | 7.6 |
| 23.... | 46 | 50 | 106 | 190 | 184 | 205 | 30 | 17 | 7.2 | 1.2 | 1.8 | 7.2 |
| 24.... | 56 | 48 | 113 | 190 | 219 | 226 | 36 | 13 | 18 | 2.0 | 0.8 | 6.8 |
| 25.... | 58 | 56 | 132 | 190 | 165 | 273 | 28 | 13 | 19 | 2.7 | 0.6 | 6.0 |
| 26.... | 50 | 64 | 127 | 200 | 148 | 233 | 21 | 164 | 20 | 2.0 | 9.5 | 6.8 |
| 27.... | 42 | 70 | 100 | 251 | 149 | 212 | 20 | 284 | 14 | 2.0 | 0.4 | 7.2 |
| 28.... | 44 | 80 | 110 | 240 | 140 | 177 | 22 | 290 | 24 | 1.7 | 0.4 | 7.2 |
| 29.... | 48 | 87 | 120 | 212 | .... | 165 | 20 | 89 | 26 | 2.4 | 0.3 | 6.4 |
| 30.... | 60 | 89 | 130 | 191 | .... | 295 | 20 | 55 | 26 | 2.0 | 3.1 | 7.2 |
| 31.... | 60 | .... | 140 | 121 | .... | 212 | .... | 51 | .... | 2.4 | 6.0 | .... |
| Total | 1192 | 2492 | 3535 | 5460 | 3473 | 7227 | 1807 | 1611 | 573.9 | 339.3 | 101.4 | 154.0 |
| Mean.. | 38.5 | 83.1 | 114 | 176 | 124 | 237 | 60.2 | 52.0 | 19.1 | 10.9 | 3.27 | 5.13 |
| Max... | 67 | 159 | 205 | 251 | 219 | 610 | 138 | 290 | 89 | 114 | 28 | 7.6 |
| Min... | 16 | 48 | 64 | 121 | 54 | 109 | 20 | 13 | 2.4 | 0.8 | 0.3 | 0.8 |
| Acre-ft. | 2360 | 4940 | 7010 | 10830 | 6890 | 14550 | 3580 | 3200 | 1140 | 673 | 201 | 305 |

Total run-off for water year 1938-39=55,679 acre-feet.

Discharge of Arkansas River at Holly, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|------|------|-------|--------|--------|------|-------|--------|
| 1.... | 13 | 3.0 | 3.4 | 1.8 | 12 | 48 | 29 | 3.0 | 115 | 3.4 | 0.2 | 2.1 |
| 2.... | 12 | 3.0 | 3.4 | 2.1 | 17 | 54 | 23 | 4.4 | 62 | 3.4 | 0.2 | 2.1 |
| 3.... | 14 | 4.4 | 2.5 | 2.5 | 20 | 66 | 20 | 9.2 | 56 | 3.9 | 0.2 | 2.1 |
| 4.... | 13 | 4.4 | 2.3 | 2.1 | 20 | 58 | 19 | 23 | 40 | 3.9 | 0.2 | 2.1 |
| 5.... | 13 | 3.0 | 2.5 | 3.0 | 25 | 54 | 18 | 11 | 44 | 3.0 | 0.2 | 2.8 |
| 6.... | 11 | 3.4 | 3.4 | 4.8 | 25 | 54 | 20 | 14 | 296 | 3.0 | 0.2 | 147 |
| 7.... | 5.3 | 3.9 | 3.9 | 5.8 | 25 | 50 | 20 | 15 | 209 | 2.5 | 0.7 | 25 |
| 8.... | 2.5 | 4.8 | 4.4 | 11 | 30 | 52 | 19 | 88 | 108 | 2.5 | 237 | 5.8 |
| 9.... | 1.6 | 4.8 | 3.9 | 14 | 12 | 52 | 20 | 39 | 98 | 2.1 | 1.0 | 3.4 |
| 10.... | 2.1 | 2.3 | 3.9 | 14 | 38 | 41 | 17 | 34 | 139 | 1.6 | 0.3 | 3.4 |
| 11.... | 2.1 | 3.0 | 3.4 | 7.9 | 44 | 41 | 7.9 | 28 | 457 | 1.4 | 0.3 | 3.4 |
| 12.... | 2.3 | 3.0 | 2.5 | 4.4 | 44 | 31 | 9.2 | 31 | 307 | 1.4 | 0.2 | 966 |
| 13.... | 2.3 | 3.4 | 3.0 | 5.3 | 66 | 26 | 13 | 28 | 204 | 1.2 | 0.2 | 164 |
| 14.... | 2.3 | 3.9 | 3.4 | 5.3 | 69 | 34 | 9.9 | 19 | 160 | 0.7 | 0.1 | 27 |
| 15.... | 2.5 | 3.9 | 3.4 | 5.6 | 64 | 36 | 9.2 | 20 | 95 | 0.7 | 0.1 | 12 |
| 16.... | 1.8 | 3.9 | 3.9 | 6.4 | 52 | 32 | 6.7 | 22 | 76 | 1.0 | 0.1 | 6.7 |
| 17.... | 2.3 | 3.9 | 4.8 | 5.8 | 60 | 31 | 5.3 | 20 | 44 | 0.5 | 433 | 3.4 |
| 18.... | 2.5 | 3.9 | 5.8 | 4.9 | 60 | 36 | 5.8 | 52 | 38 | 0.5 | 8.6 | 3.0 |
| 19.... | 1.8 | 3.9 | 3.0 | 3.7 | 62 | 34 | 9.9 | 24 | 38 | 0.5 | 5.3 | 2.5 |
| 20.... | 2.1 | 4.4 | 3.9 | 3.9 | 56 | 28 | 8.6 | 39 | 38 | 0.5 | 3.4 | 2.1 |
| 21.... | 1.8 | 4.4 | 5.3 | 4.2 | 52 | 28 | 7.2 | 5.3 | 21 | 0.5 | 4.4 | 2.1 |
| 22.... | 2.5 | 4.4 | 3.0 | 4.2 | 52 | 29 | 5.3 | 3.4 | 15 | 1.0 | 3.4 | 2.1 |
| 23.... | 3.0 | 4.4 | 7.2 | 4.2 | 54 | 22 | 4.8 | 5.8 | 13 | 1.0 | 3.0 | 2.1 |
| 24.... | 3.0 | 4.8 | 2.5 | 4.2 | 46 | 29 | 8.6 | 9.9 | 11 | 0.7 | 2.5 | 3.4 |
| 25.... | 3.0 | 4.4 | 2.3 | 4.4 | 58 | 36 | 6.3 | 11 | 9.2 | 0.5 | 3.0 | 3.4 |
| 26.... | 2.5 | 3.4 | 2.3 | 6.4 | 58 | 34 | 7.2 | 17 | 7.2 | 0.5 | 3.0 | 3.4 |
| 27.... | 2.3 | 3.4 | 2.5 | 10 | 52 | 34 | 14 | 24 | 4.8 | 0.7 | 2.3 | 3.4 |
| 28.... | 2.3 | 3.4 | 2.0 | 12 | 46 | 32 | 11 | 313 | 4.8 | 0.5 | 1.8 | 3.4 |
| 29.... | 2.1 | 3.4 | 2.2 | 11 | 48 | 26 | 5.8 | 471 | 3.9 | 0.5 | 1.6 | 3.4 |
| 30.... | 2.1 | 3.4 | 2.2 | 12 | .... | 20 | 4.4 | 130 | 3.9 | 0.5 | 2.1 | 9.9 |
| 31.... | 3.0 | .... | 2.1 | 12 | .... | 25 | .... | 164 | .... | 0.3 | 2.3 | .... |
| Total | 137.1 | 113.6 | 104.3 | 198.9 | 1267 | 1173 | 365.1 | 1678.0 | 2717.8 | 44.4 | 720.9 | 1447.7 |
| Mean.. | 4.42 | 3.79 | 3.36 | 6.42 | 43.7 | 37.8 | 12.2 | 54.1 | 90.6 | 1.43 | 23.3 | 48.3 |
| Max... | 14 | 4.8 | 7.2 | 14 | 69 | 66 | 29 | 471 | 457 | 3.9 | 433 | 966 |
| Min... | 1.6 | 2.3 | 2.0 | 1.8 | 12 | 20 | 4.4 | 3.0 | 3.9 | 0.3 | 0.1 | 2.1 |
| Acre-ft. | 272 | 225 | 207 | 395 | 2510 | 2330 | 724 | 3330 | 5390 | 88 | 1430 | 2870 |

Total run-off for water year 1939-40=19,770 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Arkansas River Near Salida, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|--------|------|------|------|------|------|-------|--------|------|------|------|-------|
| 1.... | 14 | 26 | 60 | 54 | 60 | 55 | 30 | 56 | 11 | 1.3 | 1.6 | 1.6 |
| 2.... | 9.2 | 27 | 60 | 52 | 60 | 55 | 30 | 62 | 8.0 | 1.2 | 3.8 | 1.8 |
| 3.... | 6.8 | 27 | 59 | 53 | 60 | 55 | 33 | 54 | 5.2 | 1.3 | 6.0 | 1.6 |
| 4.... | 5.7 | 31 | 59 | 50 | 60 | 55 | 33 | 52 | 5.2 | 1.2 | 2.4 | 1.5 |
| 5.... | 6.0 | 30 | 58 | 62 | 60 | 55 | 28 | 75 | 5.7 | 1.0 | 2.4 | 1.6 |
| 6.... | 6.4 | 28 | 58 | 54 | 64 | 55 | 31 | 80 | 6.8 | 1.5 | 2.4 | 2.4 |
| 7.... | 38 | 50 | 54 | 44 | 64 | 55 | 23 | 60 | 3.8 | 1.4 | 3.1 | 2.6 |
| 8.... | 8.4 | 59 | 54 | 39 | 64 | 55 | 24 | 54 | 3.2 | 1.2 | 2.8 | 2.6 |
| 9.... | 58 | 69 | 54 | 35 | 64 | 55 | 26 | 60 | 3.1 | 1.4 | 1.9 | 1.9 |
| 10.... | 48 | 71 | 56 | 36 | 64 | 55 | 23 | 101 | 3.2 | 1.3 | 1.7 | 1.6 |
| 11.... | 59 | 71 | 59 | 38 | 60 | 48 | 17 | 86 | 2.6 | 1.3 | 1.7 | 2.2 |
| 12.... | 52 | 69 | 59 | 38 | 60 | 52 | 20 | 78 | 2.5 | 1.3 | 1.9 | 1.6 |
| 13.... | 47 | 76 | 67 | 40 | 60 | 46 | 19 | 54 | 1.8 | 1.4 | 2.9 | 1.6 |
| 14.... | 48 | 73 | 59 | 55 | 60 | 46 | 19 | 53 | 1.7 | 1.5 | 2.5 | 1.6 |
| 15.... | 52 | 71 | 56 | 55 | 60 | 53 | 17 | 60 | 1.9 | 1.7 | 2.8 | 1.6 |
| 16.... | 47 | 71 | 48 | 55 | 60 | 48 | 14 | 60 | 2.2 | 1.4 | 2.8 | 1.7 |
| 17.... | 50 | 71 | 66 | 55 | 60 | 39 | 11 | 48 | 2.4 | 1.4 | 2.2 | 1.7 |
| 18.... | 48 | 67 | 54 | 55 | 60 | 42 | 8.0 | 52 | 2.8 | 1.2 | 2.1 | 1.7 |
| 19.... | 50 | 71 | 54 | 55 | 60 | 40 | 9.6 | 71 | 3.2 | 1.2 | 2.4 | 1.7 |
| 20.... | 47 | 71 | 54 | 55 | 60 | 44 | 5.4 | 78 | 2.1 | 1.3 | 2.6 | 1.7 |
| 21.... | 47 | 62 | 64 | 60 | 60 | 46 | 4.9 | 78 | 1.6 | 1.4 | 3.2 | 1.8 |
| 22.... | 46 | 60 | 62 | 60 | 60 | 37 | 5.2 | 84 | 1.6 | 1.6 | 2.4 | 1.7 |
| 23.... | 38 | 52 | 62 | 60 | 60 | 39 | 7.6 | 73 | 1.8 | 1.4 | 2.2 | 2.1 |
| 24.... | 34 | 54 | 76 | 60 | 60 | 37 | 9.6 | 54 | 0.8 | 1.3 | 1.4 | 2.1 |
| 25.... | 29 | 56 | 67 | 60 | 60 | 32 | 7.2 | 47 | 0.8 | 1.2 | 1.4 | 1.8 |
| 26.... | 28 | 56 | 67 | 60 | 60 | 31 | 5.7 | 32 | 0.9 | 1.4 | 1.7 | 1.8 |
| 27.... | 29 | 58 | 62 | 60 | 60 | 32 | 7.2 | 28 | 0.8 | 1.5 | 1.9 | 1.8 |
| 28.... | 28 | 60 | 59 | 47 | 60 | 25 | 1.4 | 21 | 1.3 | 1.5 | 2.2 | 1.9 |
| 29.... | 28 | 64 | 73 | 54 | .... | 27 | 35 | 13 | 1.5 | 1.7 | 1.9 | 2.1 |
| 30.... | 27 | 71 | 73 | 54 | .... | 23 | 34 | 8.8 | 1.4 | 3.5 | 2.2 | 2.4 |
| 31.... | 26 | .... | 59 | 62 | .... | 25 | .... | 7.6 | .... | 2.1 | 1.9 | .... |
| Total | 1136.1 | 1722 | 1866 | 1613 | 1700 | 1362 | 551.4 | 1740.4 | 90.9 | 45.1 | 74.4 | 55.8 |
| Mean. | 36.6 | 57.4 | 60.2 | 52.0 | 60.7 | 43.9 | 18.4 | 56.1 | 3.03 | 1.45 | 2.40 | 1.86 |
| Max.. | 84 | 76 | 76 | 62 | .... | 55 | 35 | 101 | 11 | 3.5 | 6.0 | 2.6 |
| Min.. | 5.7 | 2.6 | 4.8 | 3.5 | .... | 23 | 4.9 | 7.6 | 0.8 | 1.0 | 1.4 | 1.5 |
| Acre-ft. | 2250 | 3420 | 3700 | 3200 | 3370 | 2700 | 1090 | 3450 | 180 | 89 | 148 | 111 |

Total run-off for water year 1938-39=23,710 acre-feet.

Discharge of South Arkansas River Near Salida, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|------|------|-------|------|-------|------|------|-------|-------|
| 1.... | 2.2 | 3.3 | 17 | 40 | 55 | 30 | 4.8 | 1.8 | 4.8 | 2.7 | 2.5 | 7.0 |
| 2.... | 1.8 | 2.5 | 16 | 36 | 54 | 22 | 5.1 | 2.0 | 3.1 | 2.7 | 2.5 | 6.4 |
| 3.... | 1.7 | 1.8 | 15 | 36 | 52 | 34 | 4.2 | 2.0 | 2.7 | 3.3 | 2.2 | 5.6 |
| 4.... | 2.0 | 2.5 | 17 | 33 | 52 | 37 | 4.0 | 4.2 | 1.8 | 3.3 | 1.5 | 4.6 |
| 5.... | 2.4 | 2.5 | 17 | 34 | 52 | 36 | 4.0 | 4.9 | 2.4 | 3.5 | 1.3 | 4.4 |
| 6.... | 2.4 | 3.1 | 16 | 32 | 51 | 37 | 4.0 | 4.4 | 2.9 | 3.3 | 1.7 | 3.8 |
| 7.... | 2.4 | 3.1 | 12 | 35 | 52 | 34 | 3.8 | 1.2 | 2.9 | 3.3 | 8.6 | 3.8 |
| 8.... | 2.4 | 3.1 | 12 | 38 | 52 | 31 | 3.5 | 8.9 | 3.1 | 3.1 | 7.8 | 5.9 |
| 9.... | 2.5 | 3.5 | 14 | 47 | 51 | 25 | 3.1 | 6.2 | 3.5 | 3.3 | 3.8 | 5.1 |
| 10.... | 2.4 | 4.4 | 14 | 33 | 54 | 24 | 2.9 | 5.3 | 3.5 | 3.3 | 3.1 | 4.0 |
| 11.... | 2.4 | 4.6 | 12 | 40 | 51 | 18 | 2.9 | 6.4 | 3.3 | 3.1 | 2.7 | 4.0 |
| 12.... | 2.4 | 4.6 | 12 | 39 | 45 | 18 | 2.7 | 8.2 | 3.3 | 2.4 | 2.9 | 4.2 |
| 13.... | 2.2 | 4.8 | 12 | 41 | 40 | 18 | 3.3 | 5.9 | 3.1 | 4.8 | 3.8 | 4.2 |
| 14.... | 2.4 | 5.3 | 21 | 46 | 41 | 18 | 3.5 | 6.2 | 3.1 | 6.2 | 2.5 | 3.8 |
| 15.... | 2.4 | 5.3 | 25 | 44 | 39 | 16 | 3.5 | 6.7 | 3.3 | 3.1 | 2.4 | 3.8 |
| 16.... | 2.4 | 5.1 | 25 | 50 | 41 | 11 | 3.1 | 8.6 | 3.5 | 3.1 | 2.2 | 3.3 |
| 17.... | 2.2 | 5.1 | 31 | 24 | 41 | 8.9 | 4.6 | 16 | 3.3 | 3.8 | 2.4 | 3.3 |
| 18.... | 2.2 | 5.3 | 28 | 34 | 42 | 7.8 | 3.3 | 24 | 3.1 | 2.9 | 2.5 | 3.5 |
| 19.... | 2.4 | 5.3 | 23 | 31 | 42 | 8.6 | 2.7 | 12 | 3.1 | 1.5 | 4.2 | 3.3 |
| 20.... | 2.4 | 5.3 | 23 | 33 | 41 | 7.8 | 2.2 | 7.8 | 3.3 | 0.8 | 5.3 | 3.5 |
| 21.... | 2.5 | 5.6 | 24 | 35 | 40 | 7.5 | 2.5 | 8.6 | 3.5 | 0.6 | 5.9 | 3.8 |
| 22.... | 2.9 | 4.8 | 21 | 38 | 40 | 6.7 | 2.2 | 9.6 | 3.8 | 0.5 | 10 | 3.8 |
| 23.... | 2.5 | 4.4 | 24 | 39 | 39 | 6.4 | 2.0 | 6.4 | 3.3 | 0.5 | 28 | 4.0 |
| 24.... | 2.7 | 4.4 | 31 | 41 | 38 | 6.4 | 1.7 | 5.9 | 3.1 | 0.6 | 12 | 6.4 |
| 25.... | 1.8 | 6.4 | 31 | 42 | 37 | 6.2 | 1.7 | 5.1 | 2.7 | 1.0 | 13 | 3.8 |
| 26.... | 2.0 | 7.2 | 22 | 42 | 35 | 4.8 | 1.5 | 6.2 | 2.7 | 2.7 | 12 | 3.8 |
| 27.... | 2.0 | 8.9 | 24 | 45 | 35 | 5.1 | 2.4 | 4.8 | 2.5 | 2.4 | 9.6 | 3.3 |
| 28.... | 2.4 | 8.9 | 26 | 52 | 34 | 5.1 | 2.2 | 4.8 | 2.7 | 2.0 | 7.8 | 2.9 |
| 29.... | 3.1 | 14 | 30 | 56 | 33 | 5.1 | 2.0 | 4.0 | 2.2 | 2.2 | 7.5 | 2.9 |
| 30.... | 4.4 | 18 | 31 | 56 | .... | 4.6 | 2.0 | 4.2 | 2.0 | 2.0 | 7.0 | 2.9 |
| 31.... | 3.5 | .... | 39 | 55 | .... | 4.4 | .... | 4.8 | .... | 2.4 | 7.0 | .... |
| Total | 75.4 | 163.1 | 665 | 1247 | 1279 | 504.4 | 91.4 | 301.6 | 91.6 | 80.4 | 185.7 | 125.1 |
| Mean. | 2.43 | 5.44 | 21.5 | 40.2 | 44.1 | 16.3 | 3.05 | 9.73 | 3.05 | 2.59 | 5.99 | 4.17 |
| Max.. | 4.4 | 18 | 39 | 56 | 55 | 37 | 5.1 | 49 | 4.8 | 6.2 | 28 | 7.0 |
| Min.. | 1.7 | 1.8 | 12 | 24 | 33 | 4.4 | 1.5 | 1.8 | 1.8 | 0.5 | 1.3 | 2.9 |
| Acre-ft. | 150 | 324 | 1320 | 2470 | 2540 | 1000 | 181 | 598 | 182 | 159 | 368 | 248 |

Total run-off for water year 1939-40=9,540 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Grape Creek Near Westcliffe, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|------|-------|------|-------|-------|
| 1.... | 17 | 20 | .... | .... | .... | 24 | 48 | 34 | 18 | 3.5 | 8.4 | 5.1 |
| 2.... | 16 | 20 | .... | .... | .... | 22 | 43 | 36 | 27 | 3.5 | 14 | 5.1 |
| 3.... | 16 | 20 | *18 | .... | .... | 20 | 43 | 40 | 25 | 3.7 | 12 | 4.0 |
| 4.... | 16 | 20 | .... | .... | .... | 18 | 44 | 37 | 19 | 3.5 | 9.5 | 3.5 |
| 5.... | 16 | 21 | .... | .... | .... | 18 | 45 | 32 | 21 | 3.2 | 9.5 | 3.5 |
| 6.... | 16 | 20 | .... | .... | .... | 18 | 43 | 29 | 20 | 3.0 | 9.0 | 3.7 |
| 7.... | 16 | 28 | .... | .... | .... | 18 | 53 | 26 | 15 | 2.4 | 11 | 3.7 |
| 8.... | 40 | 52 | .... | .... | .... | 20 | 49 | 24 | 11 | 2.7 | 19 | 4.0 |
| 9.... | 34 | 33 | .... | .... | .... | 20 | 36 | 21 | 7.3 | 2.4 | 10 | 5.1 |
| 10.... | 25 | 46 | .... | .... | .... | 24 | 32 | 19 | 5.1 | 2.2 | 7.3 | 4.6 |
| 11.... | 21 | 42 | .... | .... | .... | 28 | 32 | 20 | 5.0 | 1.7 | 6.8 | 4.0 |
| 12.... | 20 | 40 | .... | .... | .... | 36 | 35 | 24 | 4.5 | 1.7 | 6.8 | 4.0 |
| 13.... | 18 | 39 | .... | .... | .... | 40 | 32 | 31 | 4.0 | 1.7 | 5.6 | 3.7 |
| 14.... | 18 | 39 | .... | .... | .... | 42 | 32 | 28 | 3.5 | 1.9 | 5.6 | 3.5 |
| 15.... | 18 | 40 | .... | .... | .... | 48 | 34 | 23 | 3.0 | 2.2 | 5.1 | 5.1 |
| 16.... | 18 | 41 | .... | .... | .... | 46 | 39 | 21 | 2.4 | 1.9 | 6.2 | 6.8 |
| 17.... | 18 | 33 | .... | .... | .... | 46 | 36 | 22 | 2.7 | 1.9 | 4.6 | 5.6 |
| 18.... | 18 | 32 | .... | .... | *15 | 48 | 37 | 18 | 2.7 | 1.9 | 4.0 | 4.6 |
| 19.... | 22 | 41 | .... | .... | .... | 52 | 32 | 17 | 3.0 | 1.7 | 5.1 | 4.0 |
| 20.... | 21 | 30 | .... | *10 | .... | 54 | 30 | 22 | 3.2 | 1.4 | 14 | 4.0 |
| 21.... | 21 | 29 | .... | .... | .... | 52 | 27 | 16 | 3.0 | 1.4 | 9.0 | 4.0 |
| 22.... | 21 | 29 | .... | .... | .... | 55 | 25 | 15 | 2.7 | 1.4 | 8.4 | 3.7 |
| 23.... | 21 | 27 | .... | .... | .... | 58 | 25 | 13 | 2.7 | 1.4 | 7.3 | 3.7 |
| 24.... | 20 | 25 | .... | .... | .... | 86 | 30 | 11 | 2.7 | 1.4 | 5.1 | 3.7 |
| 25.... | 20 | 29 | .... | .... | .... | 166 | 28 | 14 | 2.4 | 1.7 | 5.6 | 4.0 |
| 26.... | 20 | 25 | .... | .... | .... | 59 | 25 | 70 | 2.4 | 2.4 | 6.8 | 3.0 |
| 27.... | 20 | 20 | .... | .... | .... | 88 | 25 | 37 | 2.7 | 3.7 | 7.8 | 3.2 |
| 28.... | 20 | 20 | .... | .... | .... | 71 | 24 | 20 | 2.7 | 5.1 | 6.8 | 3.2 |
| 29.... | 20 | 20 | .... | .... | .... | 56 | 27 | 15 | 2.7 | 8.4 | 6.2 | 3.2 |
| 30.... | 20 | 20 | .... | .... | .... | 71 | 30 | 13 | 2.7 | 7.3 | 6.2 | 4.0 |
| 31.... | 20 | .... | .... | .... | .... | 58 | .... | 15 | .... | 9.5 | 5.6 | .... |
| Total | 627 | 901 | 465 | 372 | 420 | 1462 | 1041 | 763 | 229.1 | 91.8 | 248.3 | 123.3 |
| Mean. | 20.2 | 30.0 | 15 | 12 | 15 | 47.2 | 34.7 | 24.6 | 7.64 | 2.96 | 8.01 | 4.11 |
| Max. | 40 | 52 | .... | .... | .... | 166 | 53 | 70 | 27 | 9.5 | 19 | 6.8 |
| Min. | 16 | 20 | .... | .... | .... | 18 | 24 | 11 | 2.4 | 1.4 | 4.0 | 3.0 |
| Acre-ft. | 1240 | 1790 | 922 | 738 | 833 | 2900 | 2060 | 1510 | 454 | 182 | 492 | 246 |

Total run-off for water year 1938-39=13,366 acre-feet.

*Discharge measurement.

Discharge of Grape Creek Near Westcliffe, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|------|------|------|-------|-------|-------|-------|-------|-------|
| 1.... | 3.7 | 9.0 | 10 | .... | .... | 41 | 13 | 8.4 | 16 | 3.7 | 4.6 | 4.6 |
| 2.... | 3.5 | 8.4 | 13 | .... | .... | 38 | 13 | 7.3 | 14 | 3.2 | 4.6 | 3.7 |
| 3.... | 4.0 | 8.4 | 15 | .... | .... | 34 | 12 | 6.2 | 12 | 3.5 | 5.1 | 4.0 |
| 4.... | 3.5 | 9.0 | 18 | .... | .... | 38 | 13 | 6.2 | 10 | 3.7 | 6.2 | 4.0 |
| 5.... | 3.2 | 9.0 | 13 | .... | .... | 40 | 13 | 5.1 | 8.4 | 4.0 | 6.8 | 3.7 |
| 6.... | 2.7 | 9.0 | 15 | .... | .... | 33 | 15 | 5.1 | 6.2 | 5.1 | 7.8 | 3.7 |
| 7.... | 3.5 | 9.0 | 15 | .... | .... | 28 | 20 | 5.6 | 6.2 | 4.6 | 18 | 11 |
| 8.... | 4.0 | 9.5 | 13 | .... | .... | 30 | 22 | 9.0 | 4.6 | 4.0 | 7.8 | 7.3 |
| 9.... | 5.6 | 9.5 | 15 | .... | .... | 31 | 16 | 8.4 | 4.0 | 3.7 | 7.3 | 12 |
| 10.... | 6.2 | 11 | 10 | 13 | .... | 33 | 15 | 6.8 | 4.0 | 3.7 | 6.8 | 5.6 |
| 11.... | 6.2 | 13 | 9.5 | .... | .... | 30 | 20 | 6.8 | 4.0 | 3.5 | 6.2 | 13 |
| 12.... | 5.1 | 15 | 9.5 | .... | .... | 26 | 32 | 5.6 | 4.0 | 3.5 | 4.0 | 7.3 |
| 13.... | 5.1 | 15 | 10 | .... | .... | 23 | 39 | 6.2 | 3.5 | 15 | 4.0 | 7.3 |
| 14.... | 5.6 | 15 | 12 | .... | .... | 28 | 23 | 6.2 | 4.0 | 7.3 | 4.0 | 7.3 |
| 15.... | 5.6 | 15 | 10 | .... | .... | 34 | 16 | 5.6 | 4.6 | 7.8 | 3.7 | 6.8 |
| 16.... | 7.3 | 13 | 9 | .... | .... | 44 | 13 | 6.2 | 4.0 | 5.1 | 4.6 | 5.6 |
| 17.... | 9.5 | 12 | 8 | .... | .... | 44 | 30 | 18 | 4.0 | 4.0 | 6.2 | 6.2 |
| 18.... | 9.0 | 13 | 9.5 | .... | .... | 39 | 45 | 70 | 3.7 | 3.0 | 10 | 9.0 |
| 19.... | 9.5 | 13 | 9.5 | .... | .... | 36 | 32 | 30 | 3.7 | 3.0 | 28 | 6.8 |
| 20.... | 8.4 | 13 | 9 | .... | .... | 34 | 23 | 12 | 3.2 | 3.2 | 10 | 5.6 |
| 21.... | 9.0 | 12 | 9 | .... | .... | 32 | 15 | 11 | 3.5 | 6.8 | 9.5 | 5.1 |
| 22.... | 8.4 | 11 | 9.5 | .... | .... | 31 | 13 | 32 | 11 | 5.4 | 9.0 | 6.8 |
| 23.... | 8.4 | 12 | 9.5 | .... | .... | 27 | 12 | 32 | 7.3 | 9.5 | 7.3 | 9.0 |
| 24.... | 8.4 | 11 | 9.5 | .... | .... | 24 | 12 | 15 | 4.6 | 6.8 | 7.8 | 21 |
| 25.... | 8.4 | 13 | 9 | .... | .... | 24 | 11 | 12 | 4.0 | 5.1 | 7.8 | 15 |
| 26.... | 8.4 | 15 | 9.5 | .... | .... | 22 | 11 | 20 | 4.0 | 4.0 | 6.8 | 9.5 |
| 27.... | 7.3 | 18 | 9.5 | .... | .... | 22 | 10 | 22 | 3.5 | 7.8 | 6.2 | 6.8 |
| 28.... | 7.8 | 17 | 10 | .... | .... | 19 | 9.5 | 20 | 3.7 | 6.2 | 6.2 | 6.8 |
| 29.... | 7.8 | 14 | 11 | .... | .... | 16 | 9.5 | 20 | 4.0 | 6.2 | 4.0 | 5.6 |
| 30.... | 8.4 | 9.0 | 12 | .... | .... | 16 | 9.0 | 23 | 4.0 | 5.6 | 8.4 | 5.1 |
| 31.... | 8.4 | .... | 12 | .... | .... | 15 | .... | 18 | .... | 6.2 | 7.8 | .... |
| Total | 201.9 | 360.8 | 343.3 | 527 | 638 | 932 | 537.0 | 459.7 | 174.2 | 212.8 | 236.5 | 275.6 |
| Mean. | 6.51 | 12.0 | 11.1 | 17 | 22 | 30.1 | 17.9 | 14.8 | 5.81 | 6.86 | 7.63 | 9.19 |
| Max. | 9.5 | 18 | 18 | .... | .... | 44 | 45 | 70 | 16 | 5.4 | 28 | 5.6 |
| Min. | 2.7 | 8.4 | 8 | .... | .... | 15 | 9.0 | 5.1 | 3.2 | 3.0 | 3.7 | 3.7 |
| Acre-ft. | 400 | 716 | 681 | 1050 | 1270 | 1850 | 1070 | 912 | 346 | 422 | 469 | 547 |

Total run-off for water year 1939-40=9,730 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of St. Charles River at San Isabel, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|------|------|------|------|-------|------|-------|------|------|-------|
| 1.... | 3.4 | 2.0 | 3.4 | 1.6 | 1.2 | 1.0 | 3.3 | 44 | 28 | 4.4 | 2.6 | 1.4 |
| 2.... | 3.4 | 2.0 | 2.7 | 1.7 | 1.2 | 1.0 | 5.0 | 49 | 26 | 4.4 | 2.6 | 1.6 |
| 3.... | 4.4 | 4.4 | 1.7 | 1.5 | 1.3 | 1.0 | 6.5 | 46 | 25 | 4.4 | 5.6 | 1.5 |
| 4.... | 5.8 | 2.7 | 1.7 | 1.5 | 1.3 | 1.0 | 6.7 | 46 | 25 | 4.4 | 5.1 | 1.5 |
| 5.... | 4.8 | 3.5 | 1.7 | 1.5 | 1.3 | 1.0 | 5.1 | 46 | 24 | 4.2 | 3.2 | 1.4 |
| 6.... | 5.0 | 4.0 | 1.7 | 1.6 | 1.2 | 1.0 | 5.8 | 46 | 22 | 4.0 | 2.6 | 1.3 |
| 7.... | 7.6 | 3.5 | 1.7 | 1.6 | 1.2 | 1.0 | 6.3 | 28 | 21 | 3.9 | 2.7 | 1.3 |
| 8.... | 13 | 4.1 | 3.0 | 1.7 | 1.1 | 1.2 | 5.9 | 32 | 13 | 3.8 | 4.5 | 1.6 |
| 9.... | 10 | 2.6 | 3.0 | 1.7 | 1.1 | 1.2 | 5.9 | 38 | 12 | 3.8 | 2.7 | 1.7 |
| 10.... | 10 | 2.5 | 3.0 | 1.7 | 1.1 | 1.2 | 5.8 | 37 | 17 | 3.6 | 2.3 | 1.6 |
| 11.... | 9.1 | 2.4 | 3.0 | 1.7 | 1.2 | 1.2 | 6.2 | 31 | 17 | 3.5 | 2.0 | 1.5 |
| 12.... | 4.1 | 2.8 | 2.7 | 1.6 | 1.2 | 1.2 | 6.6 | 34 | 16 | 3.2 | 1.8 | 1.4 |
| 13.... | 5.3 | 2.6 | 2.0 | 1.5 | 1.2 | 1.4 | 6.4 | 42 | 11 | 3.0 | 2.1 | 1.4 |
| 14.... | 5.3 | 2.6 | 2.2 | 1.4 | 1.3 | 1.6 | 8.7 | 30 | 8.1 | 2.8 | 2.2 | 1.3 |
| 15.... | 5.6 | 2.6 | 2.3 | 1.5 | 1.3 | 2.0 | 7.8 | 25 | 7.7 | 2.6 | 2.0 | 1.3 |
| 16.... | 3.6 | 2.5 | 2.0 | 1.7 | 1.4 | 1.8 | 5.8 | 23 | 7.0 | 2.4 | 1.9 | 1.4 |
| 17.... | 2.8 | 3.0 | 2.3 | 1.6 | 1.6 | 2.1 | 6.1 | 21 | 6.1 | 2.4 | 1.8 | 1.5 |
| 18.... | 3.1 | 2.6 | 2.4 | 1.7 | 1.8 | 2.1 | 6.4 | 22 | 5.7 | 2.2 | 1.8 | 1.5 |
| 19.... | 4.7 | 2.1 | 2.2 | 1.8 | 1.4 | 2.3 | 5.4 | 22 | 5.2 | 2.2 | 1.8 | 1.4 |
| 20.... | 4.5 | 2.1 | 2.1 | 1.9 | 1.6 | 2.7 | 5.4 | 19 | 5.3 | 2.1 | 2.0 | 1.2 |
| 21.... | 4.8 | 2.1 | 2.1 | 1.9 | 1.3 | 3.3 | 12 | 19 | 5.3 | 2.0 | 2.0 | 1.3 |
| 22.... | 4.8 | 1.3 | 2.0 | 1.9 | 1.3 | 3.8 | 27 | 17 | 5.3 | 2.0 | 2.0 | 1.2 |
| 23.... | 2.3 | 1.9 | 1.7 | 2.3 | 1.3 | 4.2 | 26 | 16 | 4.7 | 2.0 | 1.8 | 1.2 |
| 24.... | 2.3 | 2.3 | 1.5 | 2.3 | 1.3 | 4.1 | 24 | 16 | 4.7 | 2.0 | 1.7 | 1.2 |
| 25.... | 2.3 | 2.6 | 1.5 | 2.6 | 1.2 | 3.8 | 26 | 16 | 4.7 | 2.0 | 1.6 | 1.3 |
| 26.... | 2.0 | 2.8 | 1.5 | 2.6 | 1.2 | 3.1 | 27 | 25 | 4.7 | 2.0 | 1.9 | 1.3 |
| 27.... | 2.0 | 3.0 | 1.5 | 2.3 | 1.2 | 3.3 | 25 | 36 | 4.7 | 2.1 | 1.8 | 1.3 |
| 28.... | 2.0 | 3.4 | 1.5 | 1.7 | 1.0 | 3.4 | 63 | 43 | 4.7 | 2.7 | 1.8 | 1.5 |
| 29.... | 2.0 | 3.4 | 1.5 | 1.4 | ... | 3.3 | 43 | 46 | 4.7 | 2.8 | 1.8 | 1.6 |
| 30.... | 2.0 | 3.4 | 1.5 | 1.3 | ... | 3.2 | 44 | 29 | 4.4 | 2.7 | 1.8 | 1.2 |
| 31.... | 2.0 | ... | 1.5 | 1.3 | ... | 3.3 | ... | 25 | ... | 2.6 | 1.5 | ... |
| Total | 144.0 | 82.8 | 64.6 | 54.1 | 35.8 | 67.8 | 448.1 | 969 | 350.0 | 92.2 | 73.0 | 41.9 |
| Mean | 4.65 | 2.76 | 2.08 | 1.75 | 1.28 | 2.19 | 14.9 | 31.3 | 11.7 | 2.97 | 2.35 | 1.40 |
| Max.. | 13 | 4.4 | 3.4 | 2.6 | 1.8 | 4.2 | 63 | 49 | 28 | 4.4 | 5.6 | 1.7 |
| Min.. | 2.0 | 1.3 | 1.5 | 1.3 | 1.0 | 1.0 | 3.3 | 16 | 4.4 | 2.0 | 1.5 | 1.2 |
| Acre-ft. | 286 | 164 | 128 | 107 | 71.0 | 134 | 889 | 1920 | 694 | 183 | 145 | 83 |

Total run-off for water year 1938-39=4,800 acre-feet.

Discharge of St. Charles River at San Isabel, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|------|------|------|-------|
| 1.... | 1.2 | 1.3 | 0.7 | 0.3 | 0.6 | 1.0 | 4.1 | 10 | 4.2 | 1.0 | 0.7 | 0.5 |
| 2.... | 1.3 | 1.3 | .8 | .4 | .6 | 1.2 | 5.2 | 17 | 3.7 | 1.4 | .5 | .5 |
| 3.... | 1.3 | 1.2 | .8 | .4 | .5 | .8 | 4.2 | 16 | 3.6 | 1.7 | .9 | .5 |
| 4.... | 1.3 | 1.1 | .8 | .5 | .6 | .8 | 5.0 | 10 | 3.5 | 2.2 | .8 | .4 |
| 5.... | 1.2 | 1.1 | .7 | .5 | .6 | 1.4 | 5.2 | 7.6 | 3.2 | 2.0 | .8 | .4 |
| 6.... | 1.1 | 1.1 | .7 | .4 | .5 | 1.0 | 5.3 | 6.1 | 2.8 | 1.3 | 1.2 | .4 |
| 7.... | 1.1 | 1.1 | .7 | .4 | .6 | 1.0 | 4.7 | 6.0 | 2.5 | 1.2 | 1.4 | .4 |
| 8.... | 1.2 | 1.1 | .7 | .4 | .5 | 1.0 | 5.3 | 6.0 | 2.8 | 1.0 | 1.3 | .4 |
| 9.... | 1.2 | 1.3 | .7 | .4 | .5 | 1.0 | 2.6 | 6.8 | 3.4 | .9 | .9 | .7 |
| 10.... | 1.3 | 1.3 | .7 | .4 | .5 | 1.1 | 2.5 | 6.1 | 2.9 | .8 | .7 | 4.0 |
| 11.... | 1.3 | 1.3 | .6 | .3 | .5 | 1.1 | 2.4 | 6.1 | 2.9 | .8 | .6 | 1.7 |
| 12.... | 1.3 | 1.4 | .9 | .4 | .5 | .9 | 3.2 | 5.2 | 2.5 | 1.0 | .6 | 1.2 |
| 13.... | 1.3 | 1.2 | .7 | .3 | .5 | 1.1 | 3.3 | 4.6 | 2.2 | 1.0 | .5 | 1.2 |
| 14.... | 1.3 | 1.4 | .6 | .3 | .5 | 1.2 | 4.4 | 4.8 | 2.1 | 1.0 | .4 | 1.0 |
| 15.... | 1.3 | 1.6 | .8 | .3 | .5 | 1.1 | 5.7 | 5.3 | 2.0 | .8 | .4 | .8 |
| 16.... | 1.3 | 2.7 | .8 | .3 | .5 | 1.0 | 6.6 | 3.6 | 1.8 | .7 | .5 | .6 |
| 17.... | 1.3 | 1.4 | .9 | .4 | .5 | 1.1 | 6.8 | 4.3 | 1.6 | .7 | .6 | 1.2 |
| 18.... | 1.3 | 1.4 | .7 | .5 | .5 | 1.2 | 6.7 | 6.5 | 1.5 | .6 | .6 | 1.0 |
| 19.... | 1.3 | 1.4 | .6 | .5 | .5 | 1.2 | 8.0 | 10 | 1.4 | .6 | .6 | 1.0 |
| 20.... | 1.3 | 1.3 | .7 | .4 | .5 | 1.2 | 11 | 7.4 | 2.2 | 1.4 | .5 | .8 |
| 21.... | 1.3 | 1.0 | .6 | .5 | .5 | 1.3 | 14 | 6.4 | 1.1 | 1.0 | .5 | 2.2 |
| 22.... | 1.2 | 1.0 | .7 | .5 | .6 | 1.5 | 10 | 7.3 | 1.1 | .9 | .7 | 1.9 |
| 23.... | 1.2 | 1.0 | .7 | .4 | .6 | 1.9 | 10 | 10 | 1.3 | .5 | 1.0 | 1.4 |
| 24.... | 1.2 | 1.0 | .3 | .4 | .7 | 2.0 | 23 | 8.4 | 1.3 | .5 | 1.6 | 7.0 |
| 25.... | 1.3 | .9 | .3 | .4 | .7 | 1.9 | 13 | 6.2 | 1.0 | .5 | .9 | 4.4 |
| 26.... | 1.2 | .8 | .3 | .5 | .8 | 2.1 | 33 | 7.1 | .9 | .5 | 1.2 | 2.9 |
| 27.... | 1.2 | .7 | .3 | .5 | .9 | 2.3 | 13 | 6.2 | .8 | .4 | .7 | 2.2 |
| 28.... | 1.2 | .8 | .2 | .5 | 1.0 | 2.1 | 14 | 5.9 | .9 | .4 | .6 | 1.9 |
| 29.... | 1.2 | .7 | .2 | .6 | 1.4 | 1.8 | 7.2 | 6.3 | .9 | .8 | .6 | 1.8 |
| 30.... | 1.5 | .7 | .2 | .6 | ... | 2.1 | 10 | 6.3 | 1.0 | .8 | .9 | 1.9 |
| 31.... | 1.4 | ... | .3 | .6 | ... | 2.8 | ... | 4.9 | ... | 1.6 | .6 | ... |
| Total | 39.1 | 35.6 | 18.7 | 13.3 | 17.7 | 43.2 | 249.4 | 224.4 | 63.1 | 30.0 | 23.8 | 46.3 |
| Mean | 1.26 | 1.19 | 0.60 | 0.43 | 0.61 | 1.39 | 8.31 | 7.24 | 2.10 | 0.97 | 0.77 | 1.54 |
| Max.. | 1.5 | 2.7 | .9 | .6 | 1.4 | 2.8 | 33 | 17 | 4.2 | 2.2 | 1.6 | 7.0 |
| Min.. | 1.1 | .7 | .2 | .3 | .5 | .8 | 2.4 | 3.6 | .8 | .4 | .4 | .4 |
| Acre-ft. | 78 | 71 | 37 | 26 | 35 | 86 | 495 | 445 | 125 | 60 | 47 | 92 |

Total run-off for water year 1939-40=1,600 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Monument Creek at Pikeview, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|-------|-------|-------|-------|-------|------|------|------|-------|------|-------|-------|
| 1.... | 13 | 6.6 | 9.3 | 16 | 12 | 13 | 37 | 58 | 15 | 1.8 | 3.8 | 1.8 |
| 2.... | 12 | 7.1 | 1.4 | 16 | 7.1 | 11 | 41 | 58 | 17 | 2.0 | 2.3 | 1.8 |
| 3.... | 9.7 | 7.9 | 1.4 | 18 | 7.1 | 10 | 32 | 60 | 14 | 1.7 | 6.6 | 3.8 |
| 4.... | 8.8 | 9.7 | 0.5 | 15 | 7.1 | 13 | 32 | 60 | 11 | 1.7 | 4.5 | 1.8 |
| 5.... | 8.8 | 7.9 | 2.0 | 16 | 4.0 | 18 | 38 | 60 | 9.3 | 1.1 | 3.2 | 4.0 |
| 6.... | 11 | 11 | 0.4 | 13 | 7.1 | 34 | 42 | 47 | 12 | 4.5 | 2.2 | 4.5 |
| 7.... | 14 | 2.8 | 1.4 | 14 | 9.7 | 38 | 78 | 58 | 10 | 3.0 | 3.2 | 2.2 |
| 8.... | 11 | 7.1 | 2.8 | 12 | 16 | 34 | 58 | 59 | 11 | 4.5 | 4.2 | 2.0 |
| 9.... | 11 | 9.7 | 3.2 | 9 | 8.8 | 36 | 62 | 47 | 13 | 3.5 | 7.5 | 0.8 |
| 10.... | 9.7 | 7.9 | 6.6 | 6 | 5.4 | 38 | 59 | 52 | 11 | 3.0 | 3.5 | 0.3 |
| 11.... | 8.8 | 9.7 | 4.0 | 4.5 | 12 | 27 | 73 | 58 | 7.9 | 2.5 | 5.8 | 0.1 |
| 12.... | 9.7 | 7.1 | 6.2 | 3.8 | 11 | 27 | 146 | 45 | 8.8 | 3.0 | 4.2 | 0.3 |
| 13.... | 9.7 | 8.8 | 6.2 | 4.5 | 7.1 | 28 | 57 | 38 | 7.1 | 1.8 | 2.0 | 0.1 |
| 14.... | 4.5 | 14 | 4.5 | 3.5 | 11 | 22 | 58 | 42 | 7.1 | 2.0 | 3.0 | 0.4 |
| 15.... | 4.5 | 10 | 11 | 10 | 11 | 25 | 71 | 37 | 7.1 | 2.8 | 2.5 | 1.4 |
| 16.... | 5.4 | 12 | 15 | 12 | 15 | 29 | 52 | 38 | 6.6 | 3.0 | 2.2 | 1.7 |
| 17.... | 4.5 | 14 | 9.3 | 12 | 15 | 26 | 65 | 38 | 6.6 | 2.5 | 3.5 | 0.6 |
| 18.... | 6.2 | 15 | 5.4 | 12 | 9.7 | 26 | 76 | 26 | 6.6 | 2.0 | 3.6 | 0.5 |
| 19.... | 8.4 | 7.1 | 12 | 15 | 8.4 | 28 | 74 | 31 | 7.5 | 1.8 | 3.8 | 1.0 |
| 20.... | 9.7 | 14 | 9.3 | 11 | 11 | 28 | 53 | 34 | 7.1 | 0.3 | 4.0 | 1.6 |
| 21.... | 9.3 | 7.1 | 7.9 | 7.5 | 7.5 | 31 | 50 | 35 | 6.6 | 0.3 | 4.2 | 1.7 |
| 22.... | 9.7 | 6.6 | 17 | 12 | 14 | 31 | 37 | 36 | 4.2 | 0.4 | 4.9 | 0.4 |
| 23.... | 8.8 | 6.4 | 11 | 6.6 | 16 | 36 | 63 | 30 | 5.4 | 0.2 | 1.2 | 1.0 |
| 24.... | 8.0 | 5.8 | 12 | 3.5 | 18 | 40 | 63 | 28 | 5.8 | 0.0 | 1.0 | 3.5 |
| 25.... | 8.8 | 5.6 | 17 | 6.2 | 14 | 30 | 63 | 30 | 5.4 | 0.1 | 0.8 | 2.0 |
| 26.... | 6.6 | 10 | 11 | 5.4 | 3.5 | 40 | 70 | 32 | 4.0 | 0.2 | 1.2 | 2.5 |
| 27.... | 4.5 | 22 | 15 | 22 | 4.0 | 40 | 70 | 28 | 3.6 | 0.4 | 1.6 | 3.0 |
| 28.... | 5.4 | 16 | 15 | 18 | 14 | 37 | 70 | 19 | 2.8 | 1.6 | 1.2 | 3.8 |
| 29.... | 6.6 | 18 | 16 | 18 | .... | 40 | 79 | 18 | 2.0 | 2.5 | 1.0 | 2.2 |
| 30.... | 7.1 | 14 | 18 | 11 | .... | 32 | 63 | 15 | 1.6 | 4.0 | 1.4 | 1.4 |
| 31.... | 7.1 | .... | 16 | 7.1 | .... | 47 | .... | 15 | .... | 4.0 | 1.0 | .... |
| Total | 262.3 | 300.9 | 267.8 | 340.6 | 286.5 | 915 | 1852 | 1232 | 237.1 | 62.2 | 115.3 | 52.2 |
| Mean. | 8.46 | 10.0 | 8.64 | 11.0 | 10.2 | 29.5 | 61.7 | 39.7 | 7.90 | 2.01 | 3.74 | 1.74 |
| Max. | 14 | 22 | 18 | 22 | 18 | 47 | 146 | 60 | 17 | 4.5 | 2.3 | 4.5 |
| Min. | 4.5 | 2.8 | 0.4 | 3.5 | 3.5 | 10 | 32 | 15 | 1.6 | 0.0 | 0.8 | 0.1 |
| Acree-ft. | 520 | 597 | 531 | 676 | 568 | 1810 | 3670 | 2440 | 470 | 123 | 230 | 104 |

Total run-off for water year 1938-39=11,740 acre-feet.

Discharge of Monument Creek at Pikeview, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|-------|-------|-------|-------|-------|------|------|-------|-------|------|-------|
| 1.... | 1.4 | 3.0 | 5.8 | .... | 3.6 | 7.1 | 12 | 26 | 28 | 13 | 1.4 | 1.0 |
| 2.... | 3.2 | 2.2 | 7.0 | .... | 3.4 | 7.1 | 14 | 28 | 44 | 11 | 1.0 | 2.0 |
| 3.... | 1.8 | 2.5 | 7.5 | .... | 4.5 | 15 | 16 | 20 | 65 | 9.7 | 1.0 | 1.4 |
| 4.... | 1.4 | 4.5 | 8.2 | 4.5 | 4.5 | 16 | 17 | 17 | 63 | 8.6 | 1.0 | 2.0 |
| 5.... | 1.8 | 3.0 | 9.3 | .... | 4.0 | 13 | 18 | 31 | 51 | 7.1 | 1.0 | 4.0 |
| 6.... | 1.8 | 4.2 | 7.5 | .... | 4.5 | 6.2 | 19 | 28 | 42 | 6.6 | 1.4 | 7.1 |
| 7.... | 1.1 | 7.9 | 4.2 | .... | 4.2 | 2.2 | 20 | 26 | 42 | 9.7 | 1.0 | 4.9 |
| 8.... | 1.6 | 7.5 | 3.0 | .... | 3.6 | 4.2 | 22 | 25 | 40 | 8.8 | .... | 7.9 |
| 9.... | 1.0 | 9.7 | 4.0 | .... | 3.9 | 4.2 | 25 | 30 | 59 | 6.6 | .... | 10 |
| 10.... | 1.2 | 7.1 | 4.0 | .... | 4.5 | 31 | 27 | 27 | 28 | 4.0 | .... | 11 |
| 11.... | 2.2 | 8.8 | 3.5 | .... | 5.0 | 46 | 20 | 21 | 26 | 2.8 | 1.1 | 9.7 |
| 12.... | 1.4 | 6.2 | 2.2 | .... | 4.5 | 49 | 21 | 23 | 20 | 2.0 | 1.4 | 10 |
| 13.... | 2.2 | 7.5 | 5.4 | .... | 3.5 | 51 | 31 | 22 | 28 | 2.0 | 2.2 | 11 |
| 14.... | 1.6 | 7.9 | 2.8 | .... | 3.0 | 45 | 29 | 27 | 23 | 1.4 | 1.6 | 13 |
| 15.... | 1.6 | 7.5 | 2.2 | .... | 3.3 | 44 | 34 | 22 | 26 | 1.2 | 1.4 | 14 |
| 16.... | 1.0 | 6.2 | 2.2 | .... | 3.6 | 40 | 27 | 17 | 20 | 1.2 | 1.0 | 12 |
| 17.... | 1.6 | 7.5 | 4.9 | .... | 3.4 | 13 | 29 | 18 | 11 | 1.2 | .... | 13 |
| 18.... | 1.4 | 4.5 | 3.5 | .... | 3.2 | 11 | 34 | 24 | 13 | 1.0 | 1.0 | 13 |
| 19.... | 1.2 | 5.4 | 2.5 | .... | 3.5 | 12 | 34 | 26 | 14 | 1.0 | .... | 15 |
| 20.... | 2.2 | 6.2 | 3.5 | .... | 3.5 | 13 | 34 | 32 | 16 | 1.2 | 1.2 | 11 |
| 21.... | 2.8 | 4.5 | 6.2 | .... | 3.5 | 13 | 38 | 43 | 17 | 1.6 | 1.8 | 14 |
| 22.... | 2.2 | 5.8 | 5.4 | .... | 3.6 | 12 | 31 | 42 | 15 | 4.4 | 1.6 | 13 |
| 23.... | 2.5 | 5.6 | 7.1 | 4.2 | 3.8 | 9.7 | 31 | 39 | 9.5 | 1.6 | 1.5 | 7.9 |
| 24.... | 2.0 | 4.5 | 9.3 | .... | 3.2 | 12 | 28 | 36 | 14 | 2.5 | 1.3 | 7.5 |
| 25.... | 1.8 | 3.6 | 8.4 | .... | 3.8 | 14 | 27 | 68 | 16 | 3.2 | 1.2 | 8.4 |
| 26.... | 2.5 | 3.2 | 7.1 | .... | 4.0 | 17 | 23 | 56 | 11 | 4.2 | 1.1 | 6.2 |
| 27.... | 2.2 | 3.1 | 6.6 | .... | 4.9 | 17 | 28 | 54 | 15 | 4.5 | 1.0 | 7.1 |
| 28.... | 2.8 | 3.5 | 5.4 | .... | 7.1 | 17 | 24 | 48 | 18 | 3.0 | .... | 4.9 |
| 29.... | 4.0 | 4.5 | 4.7 | .... | 6.6 | 16 | 24 | 40 | 15 | 1.7 | .... | 6.6 |
| 30.... | 3.0 | 5.0 | 4.5 | .... | .... | 16 | 23 | 31 | 14 | 1.6 | .... | 4.5 |
| 31.... | 2.5 | .... | 4.5 | .... | .... | 15 | .... | 25 | .... | 1.7 | .... | .... |
| Total | 59.0 | 162.6 | 162.4 | 139.5 | 117.7 | 627.1 | 760 | 972 | 803.5 | 130.1 | 34.5 | 253.1 |
| Mean. | 1.90 | 5.42 | 5.24 | 4.5 | 4.06 | 20.2 | 25.3 | 31.4 | 26.8 | 4.20 | 1.11 | 8.44 |
| Max. | 4.0 | 9.7 | 9.3 | .... | 7.1 | 51 | 38 | 68 | 65 | 13 | 2.2 | 15 |
| Min. | 1.6 | 2.2 | 2.2 | .... | 3.0 | 2.8 | 12 | 17 | 9.5 | 1.0 | .... | 1.0 |
| Acree-ft. | 117 | 323 | 322 | 277 | 233 | 1240 | 1510 | 1930 | 1590 | 258 | 68 | 502 |

Total run-off for water year 1939-40=8,370 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Fountain Creek Near Fountain Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|--------|-------|-------|-------|-------|
| 1.... | 27 | 12 | 20 | 30 | 52 | 18 | 40 | 92 | 45 | 6.5 | 2.4 | 3.4 |
| 2.... | 16 | 11 | 16 | 34 | 52 | 18 | 40 | 23 | 36 | 15 | 113 | 1.4 |
| 3.... | 11 | 16 | 10 | 40 | 46 | 18 | 40 | 23 | 40 | 3.1 | 92 | 2.4 |
| 4.... | 12 | 13 | 9 | 30 | 43 | 8.5 | 21 | 23 | 26 | 5.1 | 21 | 0.6 |
| 5.... | 22 | 22 | 10 | 33 | 46 | 31 | 14 | 23 | 9.2 | 0.3 | 5.8 | 1.4 |
| 6.... | 25 | 20 | 29 | 25 | 46 | 48 | 62 | 56 | 4.5 | 1.7 | 3.1 | 1.0 |
| 7.... | 24 | 24 | 49 | 28 | 49 | 40 | 86 | 31 | 3.4 | 6.5 | 4.5 | 1.0 |
| 8.... | 32 | 26 | 53 | 25 | 49 | 50 | 110 | 31 | 3.8 | 12 | 3.4 | 3.1 |
| 9.... | 24 | 27 | 50 | 20 | 58 | 62 | 98 | 15 | 0.3 | 9.8 | 4.5 | 2.4 |
| 10.... | 36 | 26 | 63 | 14 | 58 | 80 | 98 | 3.4 | 1.0 | 8.5 | 3.8 | 1.0 |
| 11.... | 29 | 23 | 68 | 11 | 53 | 176 | 101 | 2.0 | 0.1 | 12 | 3.8 | 0.6 |
| 12.... | 25 | 24 | 53 | 10 | 49 | 152 | 65 | 3.1 | 0.6 | 9.2 | 2.8 | 0.6 |
| 13.... | 24 | 22 | 47 | 12 | 55 | 30 | 59 | 9.8 | 3.1 | 7.2 | 1.0 | 3.1 |
| 14.... | 22 | 25 | 34 | 11 | 56 | 26 | 59 | 7.2 | 1.0 | 0.3 | 3.1 | 1.4 |
| 15.... | 20 | 23 | 50 | 18 | 60 | 53 | 140 | 4.5 | 0.2 | 0.2 | 1.7 | 2.8 |
| 16.... | 20 | 22 | 82 | 20 | 68 | 38 | 152 | 21 | 0.6 | 7.2 | 0.3 | 2.4 |
| 17.... | 22 | 26 | 70 | 21 | 64 | 6.5 | 160 | 28 | 0.2 | 7.8 | 0.2 | 0.6 |
| 18.... | 20 | 26 | 46 | 24 | 42 | 14 | 144 | 59 | 4.5 | 0.3 | 0.3 | 0.1 |
| 19.... | 16 | 20 | 60 | 27 | 38 | 24 | 137 | 21 | 4.5 | 0.3 | 0.2 | 0.2 |
| 20.... | 17 | 20 | 45 | 26 | 40 | 36 | 116 | 12 | 6.5 | 0.2 | 0.1 | 0.2 |
| 21.... | 18 | 18 | 35 | 27 | 49 | 36 | 113 | 10 | 5.8 | 0.3 | 0.3 | 0.1 |
| 22.... | 18 | 16 | 50 | 25 | 39 | 53 | 89 | 5.1 | 3.8 | 0.3 | 1.0 | 1.0 |
| 23.... | 16 | 14 | 30 | 18 | 47 | 62 | 101 | 18 | 1.7 | 0.3 | 0.2 | 2.4 |
| 24.... | 15 | 13 | 33 | 14 | 65 | 68 | 107 | 17 | 0.1 | 0.2 | 1.0 | 0 |
| 25.... | 18 | 12 | 38 | 10 | 33 | 56 | 104 | 10 | 0.2 | 2.8 | 0.3 | 0.3 |
| 26.... | 18 | 35 | 20 | 25 | 28 | 65 | 104 | 17 | 0.6 | 3.1 | 4.5 | 0.2 |
| 27.... | 11 | 40 | 22 | 50 | 18 | 80 | 86 | 26 | 0.2 | 3.8 | 8.5 | 0.2 |
| 28.... | 13 | 34 | 24 | 55 | 21 | 86 | 95 | 15 | 0.2 | 3.8 | 7.8 | 0.3 |
| 29.... | 22 | 26 | 28 | 47 | .... | 144 | 92 | 56 | 0.6 | 3.4 | 8.5 | 5.1 |
| 30.... | 14 | 23 | 26 | 42 | .... | 119 | 113 | 83 | 1.0 | 2.4 | 6.5 | 0 |
| 31.... | 11 | .... | 22 | 49 | .... | 83 | .... | 17 | .... | 2.8 | 7.2 | .... |
| Total | 618 | 664 | 1192 | 821 | 1324 | 1831 | 2746 | 7621.2 | 204.7 | 136.4 | 321.8 | 39.3 |
| Mean. | 19.9 | 22.1 | 38.5 | 26.5 | 47.3 | 59.1 | 91.5 | 24.6 | 6.82 | 4.40 | 10.4 | 1.31 |
| Max.. | 36 | 40 | 82 | 55 | 68 | 176 | 160 | 92 | 45 | 15 | 113 | 5.1 |
| Min.. | 11 | 11 | 9 | 10 | 18 | 6.5 | 14 | 2.0 | 0.1 | 0.2 | 0.1 | 0 |
| Acre-ft. | 1230 | 1320 | 2360 | 1630 | 2630 | 3630 | 5450 | 1510 | 406 | 271 | 638 | 78 |

Total run-off for water year 1938-39=21,150 acre-feet.

Discharge of Fountain Creek Near Fountain, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|------|------|------|-------|-------|--------|-------|--------|-------|-------|
| 1.... | 3.1 | .... | .... | .... | .... | 10 | 18 | 3.4 | 52 | 38 | 14 | 2.8 |
| 2.... | 2.4 | .... | .... | .... | .... | 7.6 | 21 | 6.6 | 47 | 85 | 12 | 2.8 |
| 3.... | 5.1 | .... | .... | .... | .... | 6.1 | 19 | 9.4 | 41 | 82 | 11 | 50 |
| 4.... | 4.5 | .... | .... | 38 | .... | 8 | 19 | 7.0 | 33 | 58 | 12 | 44 |
| 5.... | 4.5 | .... | .... | .... | .... | 10 | 20 | 6.6 | 36 | 50 | 11 | 12 |
| 6.... | 3.1 | .... | .... | .... | .... | 12 | 24 | 2.5 | 34 | 42 | 10 | 2.8 |
| 7.... | 3.4 | .... | 6.4 | .... | .... | 14 | 20 | 6.1 | 35 | 38 | 12 | 2.4 |
| 8.... | 3.8 | .... | .... | .... | .... | 12 | 20 | 22 | 30 | 39 | 8.4 | 5.6 |
| 9.... | 4.2 | .... | .... | .... | 35 | 16 | 23 | 13 | 26 | 44 | 8.0 | 37 |
| 10.... | 3.4 | .... | .... | .... | .... | 20 | 27 | 3.4 | 25 | 45 | 4.6 | 116 |
| 11.... | 3.0 | .... | .... | .... | .... | 26 | 28 | 5.6 | 18 | 45 | 1.6 | 62 |
| 12.... | 2.4 | .... | .... | .... | .... | 24 | 27 | 6.1 | 12 | 33 | 1.8 | 60 |
| 13.... | 4.0 | 10 | .... | .... | .... | 19 | 21 | 8.8 | 11 | 28 | 2.0 | 38 |
| 14.... | 3.4 | .... | .... | .... | .... | 26 | 21 | 8.2 | 9.6 | 33 | 1.3 | 24 |
| 15.... | 3.0 | .... | .... | .... | .... | 21 | 28 | 7.6 | 10 | 48 | 1.2 | 26 |
| 16.... | 2.6 | .... | .... | .... | .... | 13 | 20 | 5.2 | 8.4 | 54 | 1.0 | 12 |
| 17.... | 2.8 | .... | .... | .... | .... | 5.6 | 17 | 10 | 10 | 3.9 | .9 | 8.4 |
| 18.... | 3.4 | .... | .... | .... | .... | 5.2 | 15 | 6.1 | 10 | 4.2 | 1.9 | 8.0 |
| 19.... | 3.4 | .... | .... | .... | .... | 3.4 | 10 | 3.0 | 11 | 4.2 | .7 | 8.0 |
| 20.... | 3.6 | .... | .... | .... | .... | 3.0 | 5.6 | 2.4 | 10 | 14 | 2.5 | 8.4 |
| 21.... | 3.8 | .... | 5.7 | .... | .... | 12 | 5.4 | 13 | 16 | 50 | 8.4 | 10 |
| 22.... | 3.0 | 9.2 | .... | .... | .... | 14 | 6.8 | 16 | 21 | 33 | 3.9 | 12 |
| 23.... | 2.6 | .... | .... | 12 | 31 | 14 | 5.4 | 11 | 15 | 12 | 2.4 | 16 |
| 24.... | 2.7 | .... | .... | .... | .... | 17 | 3.0 | 3.8 | 14 | 7.2 | 2.4 | 22 |
| 25.... | 2.6 | .... | .... | .... | .... | 14 | .... | 9.4 | 14 | 5.3 | 3.6 | 22 |
| 26.... | 2.8 | .... | .... | .... | .... | 13 | 9.4 | 13 | 14 | 7.6 | 1.4 | 16 |
| 27.... | 3.0 | .... | .... | .... | .... | 11 | 12 | 660 | 12 | 8.0 | 1.3 | 12 |
| 28.... | 4.0 | .... | .... | .... | .... | 9.4 | 12 | 1620 | 12 | 5.6 | 1.6 | 10 |
| 29.... | 6 | .... | .... | .... | .... | 5.6 | 11 | 313 | 13 | 988 | 2.4 | 9.2 |
| 30.... | 9 | .... | .... | .... | .... | 4.8 | 7.6 | 146 | 13 | 34 | 2.8 | 11 |
| 31.... | 8.6 | .... | .... | .... | .... | 13 | .... | 53 | .... | 18 | 2.8 | .... |
| Total | 117.2 | 300 | 248 | 775 | 870 | 389.7 | 482.2 | 3001.2 | 618.0 | 1957.0 | 150.9 | 670.4 |
| Mean. | 3.78 | 10 | 8 | 25 | 30 | 12.6 | 16.1 | 96.8 | 20.6 | 63.1 | 4.87 | 22.3 |
| Max.. | 9 | .... | .... | .... | .... | 26 | 28 | 1620 | 52 | 988 | 14 | 116 |
| Min.. | 2.4 | .... | .... | .... | .... | 3.0 | 3.0 | 2.4 | 8.4 | 3.9 | .7 | 2.4 |
| Acre-ft. | 232 | 595 | 492 | 1540 | 1730 | 773 | 956 | 5950 | 1230 | 3880 | 299 | 1330 |

Total run-off for water year 1939-40=19,010 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Huerfano River at Manzanares Crossing Near Red Wing, Colo., for Year
Ending Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1.... | 22 | 19 | 10 | 18 | 13 | 10 | 17 | 47 | 66 | 27 | 33 | 21 |
| 2.... | 22 | 20 | 11 | 18 | 13 | 10 | 20 | 55 | 61 | 27 | 32 | 21 |
| 3.... | 21 | 20 | 12 | 16 | 14 | 10 | 25 | 64 | 58 | 26 | 28 | 19 |
| 4.... | 21 | 20 | 12 | 15 | 16 | 11 | 23 | 66 | 62 | 26 | 25 | 17 |
| 5.... | 23 | 20 | 12 | 13 | 16 | 11 | 22 | 64 | 70 | 26 | 24 | 16 |
| 6.... | 22 | 20 | 11 | 12 | 16 | 10 | 20 | 64 | 67 | 24 | 23 | 16 |
| 7.... | 27 | 20 | 13 | 12 | 16 | 10 | 17 | 62 | 60 | 24 | 26 | 15 |
| 8.... | 36 | 20 | 14 | 12 | 16 | 11 | 20 | 61 | 54 | 25 | 31 | 17 |
| 9.... | 22 | 20 | 14 | 12 | 16 | 11 | 22 | 58 | 52 | 28 | 30 | 17 |
| 10.... | 28 | 19 | 15 | 12 | 15 | 12 | 21 | 64 | 54 | 26 | 25 | 18 |
| 11.... | 28 | 19 | 15 | 12 | 15 | 11 | 20 | 64 | 52 | 24 | 23 | 17 |
| 12.... | 28 | 18 | 14 | 12 | 18 | 11 | 22 | 68 | 48 | 22 | 22 | 17 |
| 13.... | 26 | 21 | 11 | 11 | 18 | 10 | 24 | 67 | 50 | 19 | 21 | 20 |
| 14.... | 25 | 22 | 12 | 12 | 15 | 10 | 25 | 62 | 51 | 18 | 20 | 21 |
| 15.... | 27 | 19 | 12 | 13 | 11 | 11 | 23 | 60 | 45 | 19 | 20 | 38 |
| 16.... | 27 | 17 | 13 | 13 | 10 | 11 | 21 | 61 | 39 | 17 | 19 | 40 |
| 17.... | 24 | 16 | 13 | 13 | 10 | 11 | 18 | 60 | 38 | 17 | 16 | 36 |
| 18.... | 26 | 20 | 13 | 13 | 10 | 12 | 20 | 60 | 38 | 17 | 15 | 29 |
| 19.... | 28 | 26 | 13 | 12 | 10 | 13 | 22 | 70 | 34 | 17 | 15 | 26 |
| 20.... | 28 | 23 | 14 | 12 | 10 | 20 | 22 | 80 | 33 | 15 | 17 | 23 |
| 21.... | 28 | 16 | 14 | 12 | 10 | 20 | 25 | 76 | 31 | 15 | 17 | 20 |
| 22.... | 28 | 18 | 14 | 14 | 10 | 21 | 29 | 72 | 28 | 15 | 15 | 18 |
| 23.... | 26 | 17 | 14 | 17 | 10 | 23 | 29 | 70 | 37 | 15 | 14 | 17 |
| 24.... | 22 | 15 | 14 | 19 | 10 | 25 | 28 | 64 | 33 | 15 | 12 | 17 |
| 25.... | 22 | 12 | 14 | 21 | 10 | 25 | 28 | 62 | 31 | 17 | 19 | 17 |
| 26.... | 22 | 11 | 13 | 19 | 10 | 24 | 29 | 58 | 30 | 20 | 20 | 18 |
| 27.... | 22 | 10 | 14 | 17 | 10 | 25 | 29 | 52 | 28 | 20 | 17 | 17 |
| 28.... | 20 | 10 | 16 | 16 | 10 | 25 | 32 | 50 | 34 | 21 | 26 | 15 |
| 29.... | 21 | 10 | 16 | 15 | ... | 20 | 36 | 52 | 30 | 28 | 29 | 15 |
| 30.... | 20 | 10 | 16 | 15 | ... | 15 | 40 | 58 | 27 | 41 | 28 | 17 |
| 31.... | 19 | ... | 17 | 14 | ... | 15 | ... | 66 | ... | 40 | 24 | ... |
| Total | 761 | 528 | 416 | 442 | 358 | 464 | 725 | 1937 | 1341 | 691 | 686 | 615 |
| Mean | 24.5 | 17.6 | 13.4 | 14.3 | 12.8 | 15.0 | 24.3 | 62.5 | 44.7 | 22.3 | 22.1 | 20.5 |
| Max. | 36 | 26 | 17 | 21 | 18 | 25 | 40 | 80 | 70 | 41 | 33 | 40 |
| Min. | 19 | 10 | 10 | 11 | 10 | 10 | 17 | 47 | 27 | 15 | 12 | 15 |
| Acre-ft. | 1510 | 1050 | 825 | 877 | 710 | 920 | 1450 | 3840 | 2660 | 1370 | 1360 | 1220 |

Total run-off for water year 1938-39=17,790 acre-feet.

**Discharge of Huerfano River at Manzanares Crossing Near Redwing, Colorado, for Year
Ending Sept. 30, 1940.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|-------|
| 1.... | 16 | 11 | 12 | 9.8 | 11 | 13 | 14 | 20 | 58 | 22 | 18 | 17 |
| 2.... | 15 | 12 | 11 | 8.8 | 9.6 | 13 | 12 | 20 | 60 | 22 | 16 | 17 |
| 3.... | 14 | 12 | 11 | 9.0 | 9.8 | 13 | 10 | 22 | 58 | 22 | 15 | 16 |
| 4.... | 14 | 10 | 11 | 9.0 | 10 | 12 | 12 | 22 | 56 | 22 | 16 | 11 |
| 5.... | 12 | 9.0 | 10 | 8.4 | 11 | 13 | 12 | 25 | 51 | 24 | 19 | 11 |
| 6.... | 11 | 9.0 | 12 | 7.8 | 11 | 12 | 12 | 28 | 45 | 22 | 22 | 12 |
| 7.... | 11 | 8.5 | 11 | 7.4 | 12 | 12 | 10 | 28 | 42 | 23 | 24 | 13 |
| 8.... | 13 | 8.5 | 10 | 7.4 | 13 | 13 | 9 | 33 | 40 | 20 | 26 | 12 |
| 9.... | 13 | 11 | 10 | 7.8 | 13 | 14 | 10 | 32 | 38 | 20 | 26 | 13 |
| 10.... | 13 | 12 | 9.5 | 9.0 | 12 | 14 | 12 | 29 | 35 | 20 | 26 | 16 |
| 11.... | 12 | 12 | 8.5 | 9.6 | 11 | 13 | 11 | 28 | 33 | 20 | 24 | 16 |
| 12.... | 11 | 10 | 9.0 | 12 | 10 | 12 | 12 | 28 | 32 | 20 | 22 | 14 |
| 13.... | 11 | 11 | 13 | 10 | 9.8 | 13 | 13 | 29 | 28 | 21 | 20 | 15 |
| 14.... | 12 | 10 | 11 | 9.1 | 9.4 | 13 | 15 | 33 | 28 | 20 | 18 | 15 |
| 15.... | 11 | 10 | 11 | 8.7 | 9.2 | 13 | 17 | 39 | 30 | 23 | 18 | 15 |
| 16.... | 12 | 12 | 11 | 9.6 | 8.7 | 15 | 20 | 39 | 30 | 22 | 20 | 14 |
| 17.... | 12 | 12 | 9.5 | 8.8 | 9.2 | 13 | 21 | 48 | 29 | 22 | 20 | 15 |
| 18.... | 12 | 11 | 9.0 | 8.4 | 10 | 12 | 21 | 52 | 30 | 21 | 19 | 17 |
| 19.... | 13 | 12 | 8.4 | 8.0 | 10 | 13 | 20 | 42 | 31 | 21 | 24 | 18 |
| 20.... | 12 | 12 | 7.0 | 8.5 | 11 | 14 | 20 | 39 | 29 | 22 | 21 | 22 |
| 21.... | 12 | 9.0 | 7.2 | 9.0 | 11 | 15 | 19 | 41 | 31 | 22 | 27 | 26 |
| 22.... | 12 | 8.5 | 7.8 | 9.5 | 12 | 14 | 16 | 40 | 36 | 26 | 23 | 30 |
| 23.... | 12 | 9.5 | 8.8 | 9.0 | 13 | 13 | 16 | 37 | 37 | 23 | 24 | 32 |
| 24.... | 12 | 10 | 7.4 | 8.3 | 13 | 13 | 16 | 37 | 35 | 22 | 24 | 32 |
| 25.... | 11 | 10 | 7.2 | 7.8 | 14 | 13 | 17 | 37 | 33 | 20 | 28 | 30 |
| 26.... | 13 | 10 | 7.2 | 8.4 | 14 | 14 | 17 | 39 | 30 | 21 | 26 | 28 |
| 27.... | 12 | 10 | 7.8 | 9.4 | 15 | 14 | 17 | 40 | 27 | 22 | 25 | 26 |
| 28.... | 12 | 11 | 8.7 | 10 | 14 | 14 | 15 | 43 | 25 | 21 | 24 | 27 |
| 29.... | 12 | 14 | 9.5 | 12 | 13 | 10 | 17 | 48 | 24 | 20 | 21 | 25 |
| 30.... | 12 | 12 | 9.9 | 13 | ... | 12 | 22 | 51 | 23 | 20 | 20 | 24 |
| 31.... | 10 | ... | 10 | 12 | ... | 12 | ... | 52 | ... | 19 | 20 | ... |
| Total | 380 | 319.0 | 296.4 | 285.5 | 329.7 | 404 | 455 | 1101 | 1084 | 665 | 676 | 582 |
| Mean | 12.3 | 10.6 | 9.56 | 9.21 | 11.4 | 13.0 | 15.2 | 35.5 | 36.1 | 21.5 | 21.8 | 19.4 |
| Max. | 16 | 14 | 13 | 13 | 15 | 15 | 22 | 52 | 60 | 26 | 28 | 32 |
| Min. | 10 | 8.5 | 7.0 | 7.4 | 8.7 | 10 | 9 | 20 | 23 | 19 | 15 | 11 |
| Acre-ft. | 754 | 633 | 588 | 566 | 654 | 801 | 902 | 2180 | 2150 | 1320 | 1340 | 1150 |

Total run-off for water year 1939-40=13,040 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Huerfano River at Badito, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|------|------|------|------|-------|------|------|-------|-------|-------|
| 1.... | 13 | 8.5 | 43 | 37 | 22 | 21 | 13 | 42 | 33 | 12 | 9.0 | 8.5 |
| 2.... | 13 | 7.1 | 49 | 47 | 38 | 22 | 21 | 32 | 29 | 11 | 27.5 | 6.0 |
| 3.... | 12 | 7.9 | 38 | 41 | 38 | 22 | 23 | 26 | 20 | 11 | 9.2 | 8.7 |
| 4.... | 11 | 5.1 | 36 | 37 | 40 | 22 | 15 | 28 | 26 | 10 | 8.0 | 3.4 |
| 5.... | 9.0 | 4.7 | 41 | 36 | 36 | 16 | 9.0 | 27 | 32 | 7.1 | 6.7 | 1.4 |
| 6.... | 7.9 | 3.7 | 37 | 35 | 36 | 13 | 11 | 21 | 23 | 6.0 | 4.2 | 5.4 |
| 7.... | 7.9 | 3.3 | 33 | 31 | 28 | 37 | 15 | 22 | 24 | 7.1 | 138 | 5.8 |
| 8.... | 10 | 31 | 37 | 41 | 29 | 38 | 13 | 22 | 21 | 6.0 | 23 | 7.6 |
| 9.... | 13 | 29 | 33 | 49 | 25 | 40 | 12 | 29 | 20 | 8.7 | 4.4 | 9.0 |
| 10.... | 12 | 26 | 37 | 36 | 16 | 40 | 6.0 | 26 | 19 | 7.3 | 2.8 | 9.3 |
| 11.... | 15 | 26 | 32 | 31 | 13 | 42 | 5.8 | 41 | 21 | 5.4 | 3.9 | 7.3 |
| 12.... | 13 | 26 | 28 | 44 | 33 | 42 | 2.2 | 52 | 21 | 6.8 | 2.2 | 8.2 |
| 13.... | 18 | 19 | 18 | 41 | 25 | 40 | 5.1 | 26 | 19 | 6.5 | 4.9 | 8.2 |
| 14.... | 15 | 36 | 29 | 22 | 28 | 44 | 10 | 18 | 17 | 8.2 | 3.5 | 7.1 |
| 15.... | 11 | 35 | 37 | 24 | 23 | 41 | 24 | 15 | 12 | 9.6 | 3.7 | 8.5 |
| 16.... | 10 | 34 | 35 | 25 | 19 | 33 | 20 | 29 | 11 | 9.3 | 5.6 | 5.8 |
| 17.... | 11 | 33 | 29 | 23 | 17 | 37 | 20 | 25 | 12 | 8.2 | 7.1 | 5.6 |
| 18.... | 15 | 29 | 29 | 24 | 25 | 29 | 10 | 25 | 18 | 7.1 | 8.5 | 3.5 |
| 19.... | 12 | 32 | 34 | 28 | 24 | 35 | 4.9 | 27 | 15 | 8.5 | 9.0 | 7.3 |
| 20.... | 15 | 37 | 33 | 35 | 18 | 33 | 10 | 23 | 13 | 8.5 | 10 | 7.9 |
| 21.... | 13 | 36 | 34 | 49 | 17 | 36 | 0.2 | 20 | 18 | 5.4 | 10 | 11 |
| 22.... | 12 | 29 | 29 | 43 | 24 | 40 | 6.3 | 17 | 13 | 4.9 | 7.1 | 7.3 |
| 23.... | 12 | 22 | 25 | 33 | 26 | 44 | 21 | 23 | 15 | 6.5 | 7.3 | 5.8 |
| 24.... | 12 | 26 | 23 | 37 | 23 | 50 | 19 | 22 | 16 | 6.5 | 5.6 | 10 |
| 25.... | 12 | 21 | 23 | 30 | 24 | 35 | 6.8 | 37 | 14 | 6.5 | 3.9 | 6.5 |
| 26.... | 11 | 32 | 20 | 33 | 22 | 30 | 19 | 24 | 17 | 6.5 | 12 | 9.3 |
| 27.... | 11 | 41 | 21 | 34 | 26 | 43 | 18 | 16 | 17 | 8.2 | 8.5 | 8.7 |
| 28.... | 11 | 45 | 37 | 32 | 19 | 30 | 16 | 18 | 15 | 6.3 | 9.3 | 6.0 |
| 29.... | 11 | 41 | 37 | 36 | .... | 25 | 37 | 37 | 15 | 9.0 | 11 | 8.5 |
| 30.... | 7.9 | 41 | 37 | 30 | .... | 17 | 35 | 27 | 21 | 10 | 7.9 | 6.0 |
| 31.... | 7.9 | .... | 37 | 41 | .... | 15 | .... | 35 | .... | 4.9 | 8.5 | .... |
| Total | 364.6 | 795 | 1011 | 1085 | 714 | 1012 | 428.3 | 832 | 567 | 239.0 | 844.9 | 213.6 |
| Mean. | 11.8 | 26.5 | 32.6 | 35.0 | 25.5 | 32.6 | 14.3 | 26.8 | 18.9 | 7.71 | 27.3 | 7.12 |
| Max.. | 18 | 45 | 49 | 49 | 40 | 50 | 37 | 52 | 33 | 12 | 27.5 | 11 |
| Min.. | 7.9 | 3.7 | 18 | 22 | 13 | 13 | 0.2 | 15 | 11 | 4.9 | 2.2 | 1.4 |
| Acre-ft. | 723 | 1580 | 2010 | 2150 | 1420 | 2010 | 850 | 1650 | 1120 | 474 | 1680 | 424 |

Total run-off for water year 1938-39=16,090 acre-feet.

Discharge of Huerfano River at Badito, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|
| 1.... | 3.4 | 1.5 | 3.5 | 5.5 | 18 | 16 | 3.7 | 15 | 14 | 15 | 3.2 | 12 |
| 2.... | 6.3 | .9 | 3.0 | 4.5 | 15 | 9.6 | 5.4 | 13 | 13 | 13 | 3.5 | 21 |
| 3.... | 44 | .9 | 4.7 | 5.0 | 13 | 9.3 | 6.3 | 11 | 21 | 9.6 | 130 | 17 |
| 4.... | 25 | .5 | 3.9 | 5.0 | 14 | 9.6 | 4.7 | 10 | 18 | 7.1 | 2.1 | 7.6 |
| 5.... | 34 | .3 | 3.5 | 4.5 | 15 | 6.3 | 5.4 | 7.9 | 17 | 11 | 1.9 | 10 |
| 6.... | 9.0 | 1.0 | 2.4 | 3.5 | 16 | 8.2 | 9.0 | 9.3 | 15 | 8.7 | 1.1 | 9.6 |
| 7.... | 6.8 | 1.8 | 2.5 | 3.0 | 18 | 6.8 | 6.5 | 12 | 16 | 8.5 | .5 | 5.8 |
| 8.... | 8.2 | 1.0 | 3.7 | 3.0 | 22 | 6.5 | 7.1 | 13 | 20 | 6.8 | 2.8 | 5.1 |
| 9.... | 7.1 | 1.1 | 1.9 | 6.0 | 22 | 3.0 | 3.4 | 8.5 | 20 | 5.6 | .3 | 6.8 |
| 10.... | 11 | 5.4 | 2.4 | 9 | 22 | 5.8 | 3.9 | 12 | 24 | 8.5 | .2 | 7.9 |
| 11.... | 9.0 | 2.7 | 1.9 | 14 | 23 | 2.5 | 10 | 12 | 25 | 9.0 | .1 | 7.6 |
| 12.... | 7.1 | 3.7 | 1.4 | 16 | 18 | 5.6 | 7.6 | 12 | 22 | 8.2 | 0 | 7.6 |
| 13.... | 6.0 | 2.5 | 4.2 | 14 | 17 | 4.9 | 6.3 | 13 | 21 | 7.6 | 0 | 7.9 |
| 14.... | 7.6 | 2.5 | 8.7 | 12 | 16 | 4.7 | 7.1 | 12 | 26 | 6.3 | 0 | 13 |
| 15.... | 5.8 | 4.2 | 5.4 | 11 | 25 | 3.0 | 9.0 | 15 | 22 | 8.5 | 0 | 10 |
| 16.... | 5.6 | 5.4 | 2.8 | 14 | 28 | 3.2 | 9.0 | 13 | 20 | 14 | 25 | 8.5 |
| 17.... | 6.5 | 6.3 | 0.8 | 13 | 26 | 1.8 | 13 | 16 | 18 | 9.6 | 16 | 10 |
| 18.... | 8.5 | 6.5 | 2.8 | 12 | 23 | 2.1 | 2.7 | 11 | 18 | 6.8 | 12 | 11 |
| 19.... | 11 | 4.4 | 2.5 | 10 | 23 | 1.1 | .9 | 4.6 | 19 | 11 | 13 | 11 |
| 20.... | 5.8 | 4.5 | 2.0 | 11 | 23 | 1.7 | 3.2 | 10 | 19 | 24 | 32 | 14 |
| 21.... | 6.0 | 4.5 | 2.0 | 12 | 23 | 1.4 | 7.6 | 13 | 19 | 9.6 | 7.6 | 15.5 |
| 22.... | 7.3 | 4.0 | 2.5 | 13 | 22 | 1.0 | 6.3 | 8.7 | 17 | 12 | 19 | .4 |
| 23.... | 5.6 | 3.5 | 2.5 | 11 | 26 | 1.0 | 8.2 | 3.7 | 17 | 10 | 8.7 | .2 |
| 24.... | 6.8 | 2.0 | 2.5 | 10 | 24 | .6 | 7.6 | 13 | 19 | 8.7 | 9.0 | .8 |
| 25.... | 5.6 | 1.5 | 2.0 | 10 | 23 | .3 | 7.3 | 14 | 17 | 6.5 | 16 | .1 |
| 26.... | 4.4 | 1.0 | 2.5 | 11 | 22 | .7 | 8.7 | 13 | 17 | 5.4 | 13 | .1 |
| 27.... | 3.9 | 1.0 | 3.0 | 13 | 20 | 1.5 | 10 | 16 | 17 | 4.7 | 12 | .1 |
| 28.... | 6.0 | 1.5 | 4.0 | 18 | 17 | 4.4 | 12 | 19 | 15 | 6.5 | 13 | .2 |
| 29.... | 5.4 | 2.5 | 6.0 | 20 | 14 | 3.7 | 14 | 16 | 13 | 5.1 | 11 | 0 |
| 30.... | 7.9 | 3.0 | 7.0 | 22 | .... | 2.8 | 17 | 15 | 10 | 6.5 | 10 | .1 |
| 31.... | 3.0 | .... | 7.0 | 20 | .... | 2.8 | .... | 14 | .... | 3.5 | 11 | .... |
| Total | 289.6 | 81.6 | 105.0 | 336.0 | 588 | 145.4 | 222.9 | 375.7 | 549 | 277.3 | 374.0 | 360.4 |
| Mean. | 9.34 | 2.72 | 3.39 | 10.8 | 20.3 | 4.69 | 7.43 | 12.1 | 18.3 | 8.95 | 12.1 | 12.0 |
| Max.. | 44 | 6.5 | 8.7 | 22 | 28 | 16 | 17 | 19 | 26 | 24 | 130 | 155 |
| Min.. | 3.0 | .3 | .8 | 3.0 | 13 | .3 | .9 | 3.7 | 10 | 3.5 | 0 | 0 |
| Acre-ft. | 574 | 162 | 208 | 666 | 1170 | 288 | 442 | 745 | 1090 | 550 | 742 | 715 |

Total run-off for water year 1939-40=7,350 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Huerfano River Near Undercliffe, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|------|------|-------|------|------|------|------|------|-------|-------|
| 1.... | 11 | 12 | 44 | 34 | 41 | 30 | 21 | 22 | 5.4 | 0 | 0 | 0 |
| 2.... | 11 | 13 | 42 | 41 | 30 | 34 | 17 | 30 | 5.2 | 0 | 151 | 0 |
| 3.... | 10 | 14 | 42 | 26 | 23 | 36 | 10 | 25 | 4.5 | 0 | 72 | 0 |
| 4.... | 8.8 | 16 | 42 | 31 | 25 | 38 | 12 | 28 | 4.1 | 0 | 33 | 0 |
| 5.... | 8.8 | 14 | 44 | 20 | 26 | 38 | 12 | 25 | 3.8 | 0 | 22 | 0 |
| 6.... | 8.4 | 16 | 47 | 17 | 30 | 40 | 16 | 20 | 0 | 0 | 18 | 0 |
| 7.... | 7.8 | 21 | 46 | 12 | 26 | 42 | 19 | 16 | 0 | 0 | 16 | 0 |
| 8.... | 11 | 21 | 40 | 10 | 20 | 44 | 24 | 14 | 0 | 18 | 20 | 0 |
| 9.... | 9.2 | 34 | 38 | 8 | 12 | 46 | 27 | 14 | 0 | 24 | 18 | 0 |
| 10.... | 9.6 | 31 | 47 | 4 | 8 | 47 | 25 | 18 | 0 | 17 | 8.8 | 0 |
| 11.... | 8.8 | 26 | 52 | 0 | 7.3 | 77 | 30 | 9.6 | 0 | 8.0 | 6.2 | 0 |
| 12.... | 8.0 | 26 | 50 | 0 | 12 | 75 | 21 | 9.2 | 0 | 5.2 | 4.6 | 0 |
| 13.... | 9.6 | 24 | 50 | 0 | 20 | 54 | 23 | 7.8 | 0 | 3.1 | 2.4 | 0 |
| 14.... | 8.8 | 25 | 100 | 0 | 40 | 46 | 41 | 5.7 | 0 | 0 | 2.6 | 0 |
| 15.... | 9.6 | 35 | 125 | 0 | 63 | 54 | 47 | 4.4 | 0 | 0 | 0 | 0 |
| 16.... | 10 | 46 | 53 | 0 | 54 | 64 | 70 | 3.1 | 0 | 0 | 0 | 0 |
| 17.... | 8.0 | 52 | 38 | 2 | 56 | 61 | 75 | 2.6 | 0 | 0 | 0 | 0 |
| 18.... | 8.0 | 50 | 38 | 6 | 58 | 59 | 70 | 2.0 | 0 | 0 | 0 | 0 |
| 19.... | 8.4 | 41 | 27 | 10 | 44 | 54 | 57 | 1.0 | 0 | 0 | 65 | 0 |
| 20.... | 10 | 40 | 44 | 20 | 33 | 46 | 47 | 0 | 0 | 0 | 35 | 0 |
| 21.... | 12 | 35 | 68 | 19 | 23 | 46 | 40 | 0 | 0 | 0 | 2 | 0 |
| 22.... | 9.6 | 18 | 64 | 18 | 25 | 50 | 41 | 0 | 0 | 0 | 0 | 0 |
| 23.... | 8.8 | 12 | 62 | 31 | 28 | 63 | 33 | 0 | 0 | 0 | 0 | 0 |
| 24.... | 8.8 | 10 | 60 | 18 | 32 | 70 | 24 | 0 | 0 | 0 | 0 | 0 |
| 25.... | 9.2 | 8.4 | 59 | 24 | 32 | 86 | 19 | 0 | 0 | 0 | 0 | 0 |
| 26.... | 10 | 7.5 | 52 | 46 | 36 | 68 | 16 | 8.8 | 0 | 0 | 0 | 0 |
| 27.... | 10 | 5.0 | 31 | 52 | 34 | 57 | 14 | 7.6 | 0 | 0 | 0 | 0 |
| 28.... | 11 | 4.5 | 31 | 47 | 28 | 50 | 12 | 5.4 | 0 | 0 | 0 | 0 |
| 29.... | 11 | 33 | 81 | 55 | .... | 33 | 12 | 7.6 | 0 | 0 | 0 | 0 |
| 30.... | 12 | 38 | 50 | 59 | .... | 21 | 18 | 7.6 | 0 | 0 | 0 | 0 |
| 31.... | 12 | .... | 31 | 59 | .... | 20 | .... | 5.6 | .... | 0 | 0 | 0 |
| Total | 299.2 | 728.4 | 1598 | 669 | 866.3 | 1549 | 893 | 300 | 23 | 75.3 | 476.6 | 0 |
| Mean. | 9.65 | 24.3 | 51.5 | 21.6 | 30.9 | 50.0 | 29.8 | 9.68 | 0.77 | 2.43 | 15.4 | 0 |
| Max. | 12 | 52 | 125 | 59 | 63 | 86 | 75 | 30 | 5.4 | 24 | 151 | 0 |
| Min. | 7.8 | 4.5 | 27 | 0 | 7.3 | 20 | 10 | 0 | 0 | 0 | 0 | 0 |
| Acre-ft. | 593 | 1440 | 3170 | 1330 | 1720 | 3070 | 1770 | 595 | 46 | 149 | 945 | 0 |

Total run-off for water year 1938-39=14,830 acre-feet.

Discharge of Huerfano River Near Undercliffe, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|-------|------|-------|-------|------|------|-------|--------|
| 1.... | 0 | 0 | 0 | 0 | 8 | 24 | .5 | .6 | 1.4 | 0 | 0 | 0 |
| 2.... | 0 | 0 | 0 | 0 | 7 | 30 | .4 | .2 | 1.6 | 24 | 0 | 0 |
| 3.... | 0 | 0 | 0 | 0 | 6.9 | 29 | .4 | .2 | 1.4 | 1.3 | 0 | 19 |
| 4.... | 0 | 0 | 0 | 0 | 7 | 23 | .3 | .2 | 1.3 | 2.4 | 9.6 | 11 |
| 5.... | 0 | 0 | 0 | 0 | 6.5 | 22 | .2 | .2 | 1.1 | 1 | 7 | 3.2 |
| 6.... | 0 | 0 | 0 | 0 | 6 | 17 | .4 | .2 | 1 | .6 | 4.2 | 3.2 |
| 7.... | 0 | 0 | 0 | 0 | 6 | 18 | .7 | .2 | 1.3 | .5 | 3.6 | 74 |
| 8.... | 0 | 0 | 0 | 0 | 6.5 | 17 | .9 | .4 | .9 | .5 | 2.8 | 52 |
| 9.... | 0 | 0 | 0 | 0 | 7.7 | 18 | .8 | .8 | .8 | .4 | 1.6 | 1150 |
| 10.... | 0 | 0 | 0 | 0 | 6.2 | 18 | .7 | .8 | .7 | .4 | .6 | 74 |
| 11.... | 0 | 0 | 0 | 0 | 7.5 | 18 | 1.4 | .5 | .6 | .4 | .2 | 13 |
| 12.... | 0 | 0 | 0 | 0 | 7.9 | 18 | 1 | .4 | .4 | 18 | 1.1 | 12 |
| 13.... | 0 | 0 | 0 | 0 | .5 | 15 | 1.4 | .2 | .3 | .6 | .1 | 20 |
| 14.... | 0 | 0 | 0 | 0 | 1 | 18 | 1.3 | 0 | .1 | .1 | .1 | 54 |
| 15.... | 0 | 0 | 0 | 0 | 1 | 17 | 1 | 0 | .1 | 0 | 0 | 3.2 |
| 16.... | 0 | 0 | 0 | 0 | 1.4 | 12 | 1 | 0 | .1 | 0 | 0 | 1.3 |
| 17.... | 0 | 0 | 0 | 0 | 2 | 8.1 | .5 | .1 | .1 | 0 | .2 | 1.2 |
| 18.... | 0 | 0 | 0 | 0 | 2.5 | 4.5 | 22 | 7 | 0 | 0 | 4.6 | 1.1 |
| 19.... | 0 | 0 | 0 | 0 | 5 | 4 | 24 | 22 | 0 | 0 | 8.3 | 1.1 |
| 20.... | 0 | 0 | 0 | 0 | 5.5 | 3.7 | 20 | 30 | 0 | 0 | 8.6 | 1 |
| 21.... | 0 | 0 | 0 | 0 | 7 | 3.1 | 20 | 31 | 0 | 0 | 11 | 12 |
| 22.... | 0 | 0 | 0 | 0 | 9 | 2 | 18 | 34 | 0 | .3 | 194 | 24 |
| 23.... | 0 | 0 | 0 | 0 | 15 | 1.6 | 19 | 40 | 0 | .5 | 26 | 45 |
| 24.... | 0 | 0 | 0 | 0 | 28 | 1.4 | 17 | 42 | 0 | .3 | 19 | 101 |
| 25.... | 0 | 0 | 0 | 0 | 30 | 1.2 | 14 | 42 | 0 | .2 | 7.2 | 26 |
| 26.... | 0 | 0 | 0 | 0 | 39 | 1 | 9.9 | 38 | 0 | 14 | 3.2 | 43 |
| 27.... | 0 | 0 | 0 | .2 | 14 | .8 | 6.5 | 28 | 0 | 7.2 | .7 | 15 |
| 28.... | 0 | 0 | 0 | .5 | 20 | .7 | 4.2 | 26 | 0 | .7 | 0 | 17 |
| 29.... | 0 | 0 | 0 | 6 | 18 | .7 | 2.4 | 5.7 | 0 | 0 | 0 | 20 |
| 30.... | 0 | 0 | 0 | 10 | .... | .6 | 1.5 | 1 | 0 | 0 | 0 | 29 |
| 31.... | 0 | 0 | 0 | 8 | .... | .6 | .... | 1.1 | .... | 0 | 0 | .... |
| Total | 0 | 0 | 0 | 24.7 | 282.1 | 348 | 195.9 | 352.8 | 13.2 | 73.4 | 312.7 | 1826.3 |
| Mean. | 0 | 0 | 0 | .80 | 9.73 | 11.2 | 6.53 | 11.4 | .44 | 2.37 | 10.1 | 60.9 |
| Max. | 0 | 0 | 0 | 10 | 39 | 30 | 24 | 42 | 1.6 | 24 | 194 | 1150 |
| Min. | 0 | 0 | 0 | 0 | .5 | .6 | .2 | 0 | 0 | 0 | 0 | 0 |
| Acre-ft. | 0 | 0 | 0 | 49 | 560 | 690 | 389 | 700 | 26 | 146 | 620 | 3620 |

Total run-off for water year 1939-40=6,800 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cucharas River at Boyd Ranch Near La Veta, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|
| 1..... | 12 | 10 | 9.5 | 15 | 8.2 | 6.9 | 20 | 65 | 63 | 22 | 14 | 14 |
| 2..... | 12 | 12 | 8.5 | 15 | 8.2 | 7.4 | 23 | 68 | 72 | 21 | 20 | 14 |
| 3..... | 11 | 12 | 10 | 12 | 8.4 | 8.3 | 26 | 69 | 68 | 20 | 16 | 12 |
| 4..... | 12 | 14 | 9.5 | 11 | 9.0 | 8.8 | 29 | 74 | 65 | 20 | 14 | 12 |
| 5..... | 12 | 14 | 8.5 | 10 | 9.8 | 8.6 | 26 | 73 | 67 | 18 | 14 | 12 |
| 6..... | 11 | 10 | 6.3 | 9.1 | 10 | 9.0 | 22 | 74 | 63 | 17 | 13 | 14 |
| 7..... | 12 | 24 | 8.5 | 9.2 | 10 | 10 | 24 | 68 | 60 | 16 | 16 | 7.5 |
| 8..... | 25 | 23 | 9.0 | 9.0 | 10 | 12 | 25 | 67 | 55 | 16 | 18 | 11 |
| 9..... | 17 | 18 | 9.0 | 9.0 | 9.8 | 16 | 27 | 66 | 48 | 16 | 16 | 12 |
| 10..... | 14 | 13 | 10 | 8.9 | 10 | 17 | 27 | 66 | 48 | 14 | 13 | 11 |
| 11..... | 14 | 12 | 10 | 9.0 | 10 | 16 | 27 | 67 | 46 | 14 | 14 | 7.0 |
| 12..... | 14 | 12 | 9.4 | 8.7 | 11 | 14 | 27 | 74 | 44 | 14 | 13 | 6.0 |
| 13..... | 12 | 17 | 8.9 | 7.8 | 10 | 13 | 27 | 66 | 45 | 12 | 13 | 5.2 |
| 14..... | 12 | 12 | 8.8 | 7.1 | 7.4 | 14 | 30 | 63 | 44 | 12 | 12 | 4.6 |
| 15..... | 12 | 12 | 9.0 | 7.6 | 6.2 | 16 | 32 | 65 | 40 | 14 | 12 | 5.6 |
| 16..... | 12 | 12 | 9.4 | 7.8 | 6.4 | 14 | 29 | 66 | 37 | 13 | 11 | 12 |
| 17..... | 12 | 12 | 10 | 7.6 | 7.0 | 13 | 27 | 65 | 36 | 12 | 9 | 9.5 |
| 18..... | 12 | 14 | 11 | 7.4 | 7.2 | 17 | 26 | 65 | 35 | 14 | 9.5 | 8.5 |
| 19..... | 14 | 14 | 11 | 7.3 | 7.6 | 18 | 26 | 67 | 33 | 14 | 10 | 9.0 |
| 20..... | 10 | 13 | 11 | 7.2 | 7.4 | 18 | 27 | 73 | 33 | 13 | 12 | 9.5 |
| 21..... | 10 | 10 | 12 | 7.9 | 7.5 | 18 | 30 | 73 | 33 | 12 | 15 | 8.5 |
| 22..... | 12 | 14 | 12 | 8.4 | 7.4 | 20 | 35 | 65 | 30 | 13 | 13 | 8.0 |
| 23..... | 12 | 13 | 12 | 9.0 | 7.3 | 24 | 41 | 61 | 29 | 12 | 13 | 8.0 |
| 24..... | 10 | 12 | 12 | 11 | 7.2 | 24 | 43 | 61 | 30 | 11 | 11 | 8.0 |
| 25..... | 11 | 7 | 12 | 12 | 7.1 | 22 | 42 | 66 | 27 | 12 | 10 | 7.5 |
| 26..... | 12 | 10 | 12 | 11 | 7.1 | 22 | 43 | 72 | 26 | 12 | 12 | 8.0 |
| 27..... | 10 | 13 | 13 | 10 | 7.0 | 23 | 45 | 63 | 24 | 12 | 13 | 12 |
| 28..... | 8.5 | 11 | 14 | 9.0 | 6.9 | 21 | 50 | 60 | 26 | 16 | 10 | 5.2 |
| 29..... | 9.5 | 10 | 14 | 8.6 | ..... | 22 | 57 | 59 | 24 | 18 | 8.5 | 5.6 |
| 30..... | 8.5 | 10 | 14 | 8.5 | ..... | 18 | 60 | 60 | 22 | 18 | 14 | 6.3 |
| 31..... | 8.0 | ..... | 14 | 8.3 | ..... | 18 | ..... | 63 | ..... | 18 | 13 | ..... |
| Total | 373.5 | 390 | 328.3 | 289.4 | 231.1 | 489.0 | 973 | 2064 | 1273 | 466 | 402.0 | 273.1 |
| Mean.. | 12.0 | 13.0 | 10.6 | 9.34 | 8.25 | 15.8 | 32.4 | 66.6 | 42.4 | 15.0 | 13.0 | 9.10 |
| Max.. | 25 | 24 | 14 | 15 | 11 | 24 | 60 | 74 | 72 | 22 | 20 | 14 |
| Min.. | 8 | 7 | 6.3 | 7.1 | 6.2 | 6.9 | 20 | 59 | 22 | 11 | 8.5 | 4.2 |
| Acre-ft. | 741 | 774 | 651 | 574 | 458 | 970 | 1930 | 4090 | 2520 | 924 | 797 | 542 |

Total run-off for water year 1938-39=14,980 acre-feet.

Discharge of Cucharas River at Boyd Ranch Near La Veta, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|
| 1..... | 6.0 | 8.5 | 4.9 | 6.6 | 5.1 | 9.0 | 18 | 33 | 67 | 24 | 13 | 9.0 |
| 2..... | 5.6 | 7.0 | 5.6 | 7.0 | 5.2 | 8.8 | 17 | 34 | 62 | 24 | 11 | 9.0 |
| 3..... | 5.2 | 6.6 | 4.6 | 6.2 | 5.4 | 8.6 | 15 | 40 | 59 | 24 | 9.0 | 9.0 |
| 4..... | 6.0 | 7.0 | 4.2 | 5.0 | 5.5 | 8.9 | 14 | 47 | 53 | 30 | 9.0 | 8.5 |
| 5..... | 5.6 | 6.6 | 4.2 | 4.5 | 5.6 | 9.1 | 14 | 46 | 54 | 32 | 12 | 8.0 |
| 6..... | 5.2 | 6.3 | 4.2 | 4.0 | 5.5 | 8.8 | 14 | 44 | 50 | 28 | 14 | 8.0 |
| 7..... | 6.0 | 6.6 | 3.8 | 5.0 | 5.4 | 8.0 | 12 | 45 | 50 | 27 | 20 | 8.0 |
| 8..... | 6.3 | 6.3 | 3.8 | 6.0 | 5.0 | 8.6 | 10 | 48 | 48 | 26 | 16 | 8.0 |
| 9..... | 6.0 | 5.6 | 4.2 | 6.1 | 5.3 | 9.4 | 12 | 45 | 50 | 23 | 12 | 7.0 |
| 10..... | 6.6 | 5.6 | 4.2 | 6.4 | 5.8 | 9.2 | 14 | 42 | 48 | 23 | 10 | 9.5 |
| 11..... | 6.6 | 6.6 | 4.2 | 6.6 | 5.9 | 8.6 | 12 | 46 | 43 | 22 | 12 | 10 |
| 12..... | 5.6 | 6.0 | 5.2 | 6.8 | 5.4 | 8.0 | 14 | 45 | 40 | 22 | 14 | 10 |
| 13..... | 5.6 | 5.6 | 7.0 | 5.0 | 6.2 | 8.2 | 14 | 46 | 35 | 22 | 10 | 9.5 |
| 14..... | 6.3 | 6.0 | 6.6 | 5.6 | 7.4 | 8.5 | 16 | 48 | 35 | 22 | 9.0 | 8.5 |
| 15..... | 6.0 | 6.6 | 5.6 | 6.2 | 7.0 | 8.0 | 20 | 49 | 40 | 22 | 9.0 | 8.0 |
| 16..... | 5.6 | 6.3 | 6.3 | 6.2 | 6.0 | 9.5 | 20 | 48 | 39 | 22 | 10 | 7.5 |
| 17..... | 6.6 | 6.3 | 5.6 | 5.6 | 5.8 | 8.0 | 20 | 61 | 39 | 20 | 11 | 9.0 |
| 18..... | 6.6 | 8.0 | 5.6 | 4.1 | 5.9 | 7.5 | 23 | 89 | 39 | 19 | 8.0 | 9.5 |
| 19..... | 6.3 | 8.0 | 4.6 | 4.0 | 6.0 | 9.5 | 26 | 82 | 35 | 20 | 11 | 8.5 |
| 20..... | 6.3 | 7.0 | 7.0 | 4.2 | 6.3 | 10 | 37 | 88 | 31 | 22 | 13 | 8.0 |
| 21..... | 6.3 | 8.0 | 7.0 | 4.3 | 6.5 | 12 | 49 | 92 | 30 | 22 | 12 | 9.0 |
| 22..... | 6.3 | 8.0 | 6.0 | 4.4 | 6.9 | 14 | 44 | 91 | 29 | 20 | 12 | 9.0 |
| 23..... | 6.3 | 6.3 | 5.4 | 4.2 | 7.0 | 16 | 40 | 83 | 29 | 18 | 14 | 9.0 |
| 24..... | 6.3 | 5.6 | 5.6 | 3.9 | 7.4 | 16 | 40 | 81 | 27 | 17 | 14 | 9.5 |
| 25..... | 6.3 | 8.5 | 4.2 | 4.4 | 8.0 | 18 | 42 | 82 | 26 | 16 | 12 | 9.0 |
| 26..... | 6.3 | 11.0 | 4.0 | 5.0 | 8.4 | 19 | 43 | 81 | 26 | 16 | 10 | 9.0 |
| 27..... | 6.3 | 8.5 | 4.0 | 5.4 | 8.8 | 20 | 47 | 74 | 25 | 14 | 9.0 | 8.0 |
| 28..... | 6.3 | 8.0 | 4.4 | 5.6 | 9.0 | 18 | 46 | 71 | 25 | 14 | 9.0 | 7.5 |
| 29..... | 7.0 | 9.0 | 5.0 | 5.6 | 9.0 | 15 | 39 | 76 | 27 | 14 | 10 | 7.5 |
| 30..... | 7.0 | 6.3 | 4.0 | 5.5 | ..... | 16 | 36 | 74 | 26 | 14 | 11 | 7.5 |
| 31..... | 8.0 | ..... | 6.7 | 5.2 | ..... | 17 | ..... | 71 | ..... | 13 | 9.5 | ..... |
| Total | 191.8 | 211.7 | 159.7 | 164.6 | 187.1 | 355.2 | 768 | 1902 | 1187 | 652 | 355.5 | 257.0 |
| Mean.. | 6.19 | 7.06 | 5.15 | 5.31 | 6.45 | 11.5 | 25.6 | 61.4 | 39.6 | 21.0 | 11.5 | 8.57 |
| Max.. | 8.0 | 11 | 7.0 | 7.0 | 9.0 | 20 | 49 | 92 | 67 | 32 | 20 | 10 |
| Min.. | 5.2 | 5.6 | 3.8 | 3.9 | 5.0 | 7.5 | 10 | 33 | 25 | 13 | 8.0 | 7.0 |
| Acre-ft. | 380 | 420 | 317 | 326 | 371 | 705 | 1520 | 3770 | 2350 | 1290 | 705 | 510 |

Total run-off for water year 1939-40=12,660 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Apishapa River at Aguilar, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|------|------|------|-------|-------|------|------|------|------|-------|
| 1.... | 0.5 | 3.8 | 5.0 | 0.9 | 0.7 | 0.8 | 5.8 | 6.1 | 0 | 0 | 0 | 0 |
| 2.... | 0 | 0.9 | 6.3 | 0.3 | 0.6 | 1.0 | 9.9 | 2.9 | 0 | 0 | 0 | 0 |
| 3.... | 0.1 | 6.5 | 13 | 0.2 | 0.6 | 1.6 | 14 | 3.2 | 0 | 0 | 0 | 0 |
| 4.... | 0.3 | 1.3 | 2.3 | 0 | 0.7 | 0.6 | 15 | 4.8 | 0.4 | 0 | 0 | 0 |
| 5.... | 1.5 | 6.1 | 1.3 | 0.1 | 0.7 | 4.9 | 16 | 4.4 | 0.4 | 0 | 0 | 0 |
| 6.... | 0 | 1.6 | 2.1 | 0.1 | 1.0 | 8.2 | 12 | 6.5 | 0 | 0 | 0 | 0 |
| 7.... | 2.3 | 4.0 | 3.8 | 0 | 0.3 | 11 | 9.4 | 6.7 | 0.1 | 0 | 0 | 0 |
| 8.... | 35 | 13 | 2.5 | 0 | 0.2 | 12 | 6.9 | 6.9 | 0 | 0 | 14 | 20 |
| 9.... | 12 | 3.2 | 2.0 | 0 | 0 | 11 | 9.9 | 4.8 | 0 | 0 | 0 | 0 |
| 10.... | 8.4 | 7.2 | 3.4 | 0 | 0 | 13 | 16 | 3.6 | 0 | 0 | 0 | 0 |
| 11.... | 4.4 | 0.3 | 1.2 | 0 | 0.1 | 14 | 12 | 0 | 0 | 0 | 0 | 0 |
| 12.... | 2.7 | 5.2 | 0.6 | 0 | 0.9 | 14 | 18 | 0 | 0 | 0 | 0 | 0 |
| 13.... | 1.8 | 3.6 | 0.3 | 0 | 0.5 | 12 | 14 | 0.9 | 0 | 0 | 0 | 0.3 |
| 14.... | 4.8 | 2.7 | 0 | 0 | 0.2 | 10 | 17 | 0.5 | 0.3 | 0 | 0 | 0 |
| 15.... | 3.4 | 3.4 | 1.2 | 0 | 0.4 | 9.4 | 23 | 0.1 | 0 | 0 | 0 | 0 |
| 16.... | 3.6 | 1.3 | 0.4 | 0.1 | 0.2 | 9.2 | 21 | 0.5 | 0 | 0 | 0 | 0 |
| 17.... | 3.2 | 4.0 | 0.2 | 0.2 | 0.1 | 8.6 | 11 | 0.5 | 0 | 0 | 0 | 0 |
| 18.... | 4.2 | 3.8 | 0 | 0.4 | 0.2 | 9.2 | 15 | 0.5 | 0 | 0 | 0 | 0 |
| 19.... | 3.8 | 3.6 | 0 | 0.6 | 0.1 | 14 | 16 | 0.5 | 0 | 0 | 0 | 0 |
| 20.... | 3.2 | 2.0 | 0 | 1.0 | 0 | 14 | 14 | 0.5 | 0 | 0 | 160 | 0 |
| 21.... | 3.2 | 0.9 | 0 | 0.6 | 0 | 16 | 13 | 0.4 | 0 | 0 | 0 | 0 |
| 22.... | 3.4 | 0.7 | 0 | 0.1 | 0 | 18 | 12 | 0.1 | 0 | 0 | 0 | 0 |
| 23.... | 4.0 | 0.7 | 0 | 0.2 | 0 | 17 | 15 | 0.4 | 0 | 0 | 0 | 0 |
| 24.... | 3.8 | 0.8 | 0 | 0.3 | 0 | 17 | 13 | 0 | 0 | 0 | 0 | 0 |
| 25.... | 4.4 | 1.1 | 0.5 | 0.7 | 0 | 16 | 12 | 0 | 0 | 0 | 0 | 0 |
| 26.... | 2.3 | 1.0 | 0.1 | 0.5 | 0 | 17 | 14 | 1.8 | 0 | 0 | 0 | 0 |
| 27.... | 0.6 | 1.0 | 0 | 1.4 | 0 | 18 | 11 | 0 | 0 | 0 | 0 | 0 |
| 28.... | 1.0 | 1.2 | 0.3 | 0.8 | 0 | 14 | 7.9 | 0 | 0 | 0 | 0 | 0 |
| 29.... | 3.8 | 1.8 | 0 | 0.6 | .... | 11 | 7.2 | 0.3 | 0 | 0 | 0 | 0 |
| 30.... | 1.2 | 3.2 | 0.3 | 0.7 | .... | 9.9 | 6.5 | 0.4 | 0 | 0 | 0 | 0 |
| 31.... | 5.8 | .... | 0.5 | 0.9 | .... | 7.4 | .... | 0 | .... | 0 | 0 | .... |
| Total | 128.7 | 89.9 | 47.3 | 10.7 | 7.5 | 339.8 | 387.5 | 57.3 | 1.2 | 0 | 174 | 20.3 |
| Mean. | 4.15 | 3.00 | 1.53 | 0.35 | 0.27 | 11.0 | 12.9 | 1.85 | 0.04 | 0 | 5.61 | 0.68 |
| Max. | 35 | 13 | 13 | 1.4 | 1.0 | 18 | 23 | 6.9 | 0.4 | 0 | 160 | 20 |
| Min. | 0 | 0.3 | 0 | 0 | 0 | 0.6 | 5.8 | 0 | 0 | 0 | 0 | 0 |
| Acre-ft. | 255 | 178 | 94 | 21 | 15 | 674 | 769 | 114 | 2.4 | 0 | 345 | 40 |

Total run-off for water year 1938-39=2,510 acre-feet.

Discharge of Apishapa River at Aguilar, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|-------|-------|-------|------|------|------|-------|
| 1.... | 0.2 | 0.2 | 0.3 | 0.4 | 0.1 | 0.2 | 1.9 | 6.5 | 2.2 | 0.4 | 0 | 0 |
| 2.... | .2 | .2 | .3 | .4 | .1 | .1 | 1.2 | 6.0 | 2.7 | 3.6 | 0 | 0 |
| 3.... | .2 | .1 | .3 | .2 | .1 | .1 | 1.2 | 6.5 | 2.2 | .3 | .1 | .1 |
| 4.... | .2 | .1 | .3 | .3 | .1 | .4 | 2.7 | 8.8 | 2.7 | 2.2 | .1 | 0 |
| 5.... | .2 | .1 | .3 | .2 | .1 | 3.2 | 2.2 | 19 | 3.2 | 11 | .1 | 0 |
| 6.... | .2 | .1 | .3 | .2 | .1 | .4 | 1.2 | 16 | 2.2 | 2.2 | .2 | 0 |
| 7.... | .2 | .1 | .3 | .2 | .1 | 2.7 | 3.6 | 17 | 2.2 | 3.6 | 1.9 | 0 |
| 8.... | .2 | .1 | .2 | .1 | .1 | 3.6 | .5 | 17 | 1.9 | 4.1 | .1 | 0 |
| 9.... | .2 | .1 | .2 | .1 | .1 | 8.2 | 1.5 | 15 | 1.5 | 1.2 | 0 | 0 |
| 10.... | .1 | .2 | .2 | .1 | .1 | 5.6 | 4.1 | 8.2 | 1.2 | .4 | .1 | .4 |
| 11.... | .1 | .2 | .3 | .2 | .1 | .8 | 3.6 | 4.1 | .8 | .4 | .1 | .1 |
| 12.... | .1 | .2 | .2 | .1 | .1 | 3.2 | 6.0 | 4.1 | .5 | .2 | .2 | .1 |
| 13.... | .1 | .2 | .2 | .1 | .1 | 8.2 | 6.0 | 4.1 | .4 | .2 | .1 | .1 |
| 14.... | .2 | .2 | .4 | .1 | .1 | 7.0 | 6.5 | 4.6 | .4 | .2 | 0 | .4 |
| 15.... | .2 | .2 | .4 | .1 | .1 | 7.0 | 5.1 | 6.5 | .4 | .2 | .1 | .8 |
| 16.... | .2 | .2 | .5 | .2 | .1 | 8.2 | 7.0 | 11 | 1.5 | .2 | 0 | .1 |
| 17.... | .2 | .1 | .8 | .2 | .1 | 9.4 | 22 | 11 | 1.5 | .1 | .1 | .1 |
| 18.... | .2 | .2 | .5 | .1 | .1 | 6.5 | 25 | 18 | 1.5 | .2 | .1 | .1 |
| 19.... | .2 | .2 | .2 | .1 | .1 | 5.6 | 24 | 25 | 1.5 | .2 | 0 | .1 |
| 20.... | .2 | .2 | .4 | .1 | .1 | 5.1 | 17 | 29 | 1.5 | .2 | .1 | .1 |
| 21.... | .2 | .2 | .4 | .2 | .1 | 6.5 | 14 | 30 | 1.5 | .2 | .1 | .1 |
| 22.... | .2 | .2 | .4 | .1 | .1 | 6.5 | 13 | 34 | 1.5 | .2 | .4 | 0 |
| 23.... | .2 | .2 | .3 | .1 | .2 | 7.6 | 9.4 | 36 | .8 | .4 | .3 | .4 |
| 24.... | .2 | .1 | .2 | .1 | .2 | 8.2 | 12 | 34 | .4 | .3 | .1 | 0 |
| 25.... | .2 | .2 | .3 | .1 | .2 | 8.8 | 12 | 34 | .4 | .3 | .1 | 1.9 |
| 26.... | .2 | .2 | .2 | .1 | 9.4 | 8.8 | 11 | 33 | .4 | .3 | .1 | 4.6 |
| 27.... | .2 | .2 | .3 | .1 | 15 | 6.5 | 12 | 23 | .2 | .4 | .1 | .2 |
| 28.... | .1 | .2 | .2 | .2 | 9.4 | 4.6 | 11 | 17 | .2 | .1 | .1 | .1 |
| 29.... | .1 | .2 | .3 | .2 | 6.0 | 2.7 | 11 | 11 | .1 | .4 | 0 | 0 |
| 30.... | .2 | .2 | .3 | .1 | .... | 3.6 | 8.2 | 5.6 | .2 | .4 | .1 | .2 |
| 31.... | .2 | .... | .4 | .1 | .... | 3.2 | .... | 2.2 | .... | .2 | .1 | .... |
| Total | 5.6 | 5.1 | 9.9 | 4.9 | 42.6 | 152.5 | 255.9 | 497.2 | 37.7 | 34.3 | 4.9 | 10.0 |
| Mean. | .18 | .17 | .32 | .16 | 1.47 | 4.92 | 8.53 | 16.0 | 1.26 | 1.11 | .16 | .33 |
| Max. | .2 | .2 | .8 | .4 | 15 | 9.4 | 25 | 36 | 3.2 | 11 | 1.9 | 4.6 |
| Min. | .1 | .1 | .2 | .1 | .1 | .1 | .5 | 2.2 | .1 | .1 | 0 | 0 |
| Acre-ft. | 11 | 10 | 20 | 9.7 | 84 | 302 | 508 | 986 | 75 | 68 | 9.7 | 20 |

Total run-off for water year 1939-40=2,100 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Apishapa River Near Fowler, Colorado, for the Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|-------|-------|-------|-------|------|--------|--------|--------|
| 1.... | 1.8 | 2.0 | 1.0 | 1.6 | 3.1 | 3.5 | 2.5 | 1.8 | 6.8 | 0.8 | 1.8 | 1.0 |
| 2.... | 1.5 | 1.8 | 1.0 | 1.6 | 2.8 | 1.4 | 2.5 | 1.3 | 6.8 | 0.8 | 1.1 | 1.0 |
| 3.... | 1.3 | 1.5 | 1.1 | 1.8 | 3.5 | 5.1 | 3.8 | 1.3 | 6.2 | 0.8 | 1.3 | 0.8 |
| 4.... | 1.5 | 1.3 | 2.3 | 1.8 | 3.8 | 2.2 | 3.5 | 1.3 | 5.4 | 0.8 | 0.8 | 0.6 |
| 5.... | 1.5 | 1.3 | 1.6 | 1.0 | 4.1 | 2.3 | 5.7 | 2.8 | 5.1 | 0.8 | 1.1 | 0.6 |
| 6.... | 1.6 | 0.8 | 1.8 | 1.3 | 4.7 | 1.2 | 4.1 | 2.8 | 4.7 | 0.8 | 0.8 | 1.1 |
| 7.... | 1.5 | 0.7 | 1.6 | 2.0 | 3.5 | 1.2 | 3.8 | 2.8 | 5.1 | 0.8 | 1.3 | 2.2 |
| 8.... | 1.6 | 0.8 | 1.6 | 2.3 | 5.7 | 4.7 | 3.8 | 4.7 | 5.1 | 0.8 | 0.8 | 5.4 |
| 9.... | 1.6 | 0.7 | 1.6 | 3.1 | 8.4 | 4.7 | 3.1 | 1.8 | 4.7 | 0.8 | 0.8 | 8.4 |
| 10.... | 1.6 | 0.7 | 1.6 | 3.8 | 7.8 | 5.1 | 3.1 | 2.5 | 4.4 | 0.8 | 0.7 | 1300 |
| 11.... | 1.8 | 0.6 | 1.3 | 4.1 | 4.4 | 7.8 | 2.5 | 2.8 | 4.1 | 0.8 | 0.8 | 2110 |
| 12.... | 1.8 | 1.8 | 1.5 | 2.5 | 2.5 | 1.1 | 2.2 | 2.0 | 3.8 | 1.0 | 0.8 | 3.9 |
| 13.... | 1.8 | 0.8 | 1.1 | 3.1 | 5.7 | 1.2 | 2.0 | 2.3 | 3.8 | 1.0 | 0.6 | 3.2 |
| 14.... | 2.0 | 0.6 | 1.3 | 2.5 | 5.1 | 1.5 | 2.0 | 2.3 | 3.1 | 3.0 | 0.7 | 4.5 |
| 15.... | 2.0 | 0.6 | 1.5 | 2.2 | 3.5 | 1.2 | 1.6 | 1.8 | 3.1 | 8.4 | 0.6 | 8.1 |
| 16.... | 2.3 | 0.6 | 1.3 | 1.5 | 2.8 | 4.4 | 2.2 | 1.6 | 2.5 | 1.3 | 0.6 | 4.3 |
| 17.... | 2.3 | 0.7 | 1.1 | 1.6 | 2.3 | 4.7 | 3.1 | 1.9 | 2.5 | 1.5 | 7.8 | 3.5 |
| 18.... | 2.3 | 0.8 | 1.0 | 2.0 | 2.2 | 2.0 | 4.6 | 7.0 | 2.5 | 1.5 | 7.41 | 3.1 |
| 19.... | 2.3 | 0.6 | 1.3 | 2.5 | 2.3 | 8.9 | 1.2 | 3.4 | 2.2 | 1.6 | 2.52 | 2.6 |
| 20.... | 1.6 | 0.6 | 1.1 | 2.8 | 2.8 | 8.9 | 7.3 | 1.7 | 2.2 | 1.8 | 1.04 | 2.2 |
| 21.... | 1.5 | 0.6 | 2.2 | 2.8 | 2.5 | 1.0 | 4.7 | 6.8 | 2.0 | 1.8 | 2.2 | 1.9 |
| 22.... | 1.5 | 0.6 | 1.2 | 3.1 | 2.2 | 1.1 | 4.1 | 6.2 | 1.8 | 2.0 | 4.1 | 2.0 |
| 23.... | 1.6 | 0.6 | 6.8 | 3.1 | 2.5 | 8.4 | 3.1 | 4.7 | 1.6 | 2.0 | 3.3 | 3.1 |
| 24.... | 1.6 | 0.6 | 1.0 | 3.1 | 1.8 | 5.7 | 2.5 | 3.8 | 1.6 | 2.2 | 2.9 | 1.92 |
| 25.... | 1.5 | 0.6 | 5.4 | 3.1 | 1.8 | 5.1 | 1.8 | 2.5 | 1.5 | 2.3 | 9.9 | 1.66 |
| 26.... | 1.5 | 0.8 | 1.6 | 3.1 | 2.0 | 4.4 | 2.3 | 2.5 | 1.3 | 2.3 | 5.1 | 1.35 |
| 27.... | 1.5 | 0.8 | 1.8 | 3.1 | 4.7 | 3.8 | 2.5 | 2.3 | 1.1 | 983 | 2.3 | 1.59 |
| 28.... | 1.8 | 1.1 | 2.0 | 3.1 | 5.1 | 2.8 | 1.6 | 2.3 | 1.1 | 3.3 | 1.6 | 7.0 |
| 29.... | 2.5 | 1.3 | 1.5 | 2.2 | 1.6 | 2.5 | 3.5 | 2.2 | 0.8 | 1.4 | 1.1 | 3.0 |
| 30.... | 2.8 | 0.8 | 0.7 | 2.0 | .... | 2.5 | 2.5 | 3.5 | 0.8 | 6.8 | 1.1 | 2.0 |
| 31.... | 1.6 | .... | 0.7 | 2.2 | .... | 2.5 | .... | 5.1 | .... | 3.8 | 1.0 | .... |
| Total | 55.1 | 27.1 | 72.4 | 76.0 | 105.2 | 229.0 | 140.9 | 217.8 | 97.7 | 1110.1 | 1336.7 | 4627.1 |
| Mean.. | 1.78 | 0.90 | 2.34 | 2.45 | 3.63 | 7.39 | 4.70 | 7.03 | 3.26 | 35.8 | 43.1 | 154 |
| Max.. | 2.8 | 2.0 | 1.2 | 4.1 | 8.4 | 2.0 | 2.5 | 7.0 | 6.8 | 983 | 7.41 | 2110 |
| Min.. | 1.3 | 0.6 | 0.7 | 1.0 | 1.6 | 2.2 | 1.6 | 1.3 | 0.8 | 0.8 | 0.6 | 0.6 |
| Acre-ft. | 109 | 54 | 144 | 151 | 209 | 454 | 279 | 432 | 194 | 2200 | 2650 | 9180 |

Total run-off for water year 1939-40=16,060 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Purgatoire River at Trinidad, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|-------|------|------|------|------|------|------|-------|
| 1.... | 29 | 32 | 67 | 85 | 8.0 | 10 | 24 | 81 | 130 | 63 | 16 | 52 |
| 2.... | 35 | 42 | 42 | 81 | 7.1 | 11 | 24 | 116 | 138 | 49 | 35 | 42 |
| 3.... | 40 | 49 | 45 | 74 | 8.0 | 12 | 22 | 138 | 116 | 37 | 42 | 19 |
| 4.... | 40 | 35 | 35 | 52 | 15 | 13 | 40 | 130 | 130 | 32 | 94 | 16 |
| 5.... | 49 | 37 | 42 | 107 | 30 | 13 | 63 | 138 | 170 | 40 | 29 | 22 |
| 6.... | 45 | 40 | 52 | 37 | 40 | 11 | 90 | 125 | 161 | 40 | 81 | 27 |
| 7.... | 49 | 40 | 37 | 40 | 45 | 32 | 70 | 121 | 138 | 42 | 67 | 12 |
| 8.... | 586 | 40 | 32 | 40 | 42 | 37 | 70 | 125 | 116 | 70 | 81 | 40 |
| 9.... | 134 | 50 | 32 | 42 | 42 | 45 | 59 | 107 | 107 | 70 | 37 | 37 |
| 10.... | 121 | 56 | 29 | 42 | 56 | 35 | 56 | 103 | 103 | 52 | 24 | 35 |
| 11.... | 77 | 45 | 19 | 45 | 59 | 27 | 56 | 116 | 112 | 29 | 22 | 27 |
| 12.... | 74 | 45 | 18 | 32 | 81 | 19 | 70 | 130 | 112 | 29 | 16 | 11 |
| 13.... | 63 | 45 | 16 | 32 | 52 | 22 | 70 | 134 | 99 | 27 | 13 | 9.2 |
| 14.... | 67 | 56 | 16 | 22 | 32 | 29 | 52 | 138 | 90 | 24 | 15 | 15 |
| 15.... | 63 | 56 | 17 | 42 | 49 | 35 | 49 | 103 | 77 | 24 | 16 | 16 |
| 16.... | 63 | 52 | 17 | 42 | 40 | 32 | 59 | 99 | 63 | 35 | 19 | 42 |
| 17.... | 56 | 45 | 18 | 42 | 35 | 37 | 56 | 90 | 42 | 35 | 29 | 35 |
| 18.... | 63 | 42 | 18 | 35 | 40 | 35 | 74 | 81 | 37 | 34 | 40 | 27 |
| 19.... | 63 | 37 | 19 | 21 | 49 | 35 | 63 | 85 | 32 | 19 | 90 | 42 |
| 20.... | 56 | 52 | 20 | 21 | 35 | 45 | 49 | 90 | 49 | 24 | 210 | 32 |
| 21.... | 49 | 52 | 21 | 25 | 27 | 45 | 49 | 112 | 56 | 19 | 215 | 16 |
| 22.... | 45 | 50 | 21 | 37 | 22 | 49 | 49 | 112 | 42 | 13 | 121 | 16 |
| 23.... | 42 | 48 | 22 | 49 | 19 | 59 | 56 | 99 | 45 | 13 | 90 | 11 |
| 24.... | 40 | 47 | 23 | 67 | 19 | 67 | 63 | 81 | 45 | 15 | 70 | 13 |
| 25.... | 37 | 40 | 25 | 42 | 15 | 49 | 70 | 94 | 40 | 15 | 52 | 13 |
| 26.... | 35 | 35 | 30 | 59 | 16 | 42 | 74 | 180 | 40 | 19 | 42 | 18 |
| 27.... | 35 | 30 | 56 | 49 | 12 | 52 | 67 | 112 | 59 | 13 | 116 | 29 |
| 28.... | 35 | 33 | 52 | 32 | 10 | 49 | 63 | 103 | 67 | 27 | 166 | 27 |
| 29.... | 32 | 65 | 45 | 27 | .... | 42 | 56 | 103 | 70 | 81 | 90 | 24 |
| 30.... | 24 | 74 | 56 | 45 | .... | 37 | 70 | 90 | 70 | 70 | 85 | 27 |
| 31.... | 24 | .... | 70 | 24 | .... | 29 | .... | 99 | .... | 45 | 70 | .... |
| Total | 2171 | 1370 | 1012 | 1390 | 905.1 | 1055 | 1733 | 3435 | 2556 | 1108 | 2097 | 748.2 |
| Mean. | 70.0 | 45.7 | 32.6 | 44.8 | 32.3 | 34.0 | 57.8 | 111 | 85.2 | 35.7 | 67.6 | 24.9 |
| Max.. | 586 | 74 | 70 | 107 | 81 | 67 | 90 | 180 | 170 | 81 | 215 | 52 |
| Min.. | 24 | 30 | 16 | 21 | 7.1 | 10 | 22 | 81 | 32 | 13 | 13 | 9.2 |
| Acre-ft. | 4310 | 2720 | 2010 | 2760 | 1800 | 2090 | 3440 | 6810 | 5070 | 2200 | 4160 | 1480 |

Total run-off for water year 1938-39—38,850 acre-feet.

Discharge of Purgatoire River at Trinidad, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|------|------|------|-------|------|------|------|------|-------|
| 1.... | 29 | 11 | 13 | 15 | 15 | 27 | 16 | 42 | 225 | 24 | 45 | 67 |
| 2.... | 22 | 11 | 16 | 14 | 14 | 32 | 16 | 40 | 235 | 67 | 42 | 29 |
| 3.... | 13 | 5.0 | 16 | 14 | 14 | 19 | 19 | 22 | 235 | 74 | 40 | 27 |
| 4.... | 13 | 7.8 | 16 | 13 | 15 | 19 | 19 | 22 | 250 | 90 | 35 | 29 |
| 5.... | 16 | 15 | 16 | 13 | 16 | 22 | 19 | 81 | 310 | 152 | 49 | 27 |
| 6.... | 13 | 12 | 16 | 12 | 15 | 22 | 27 | 90 | 225 | 81 | 99 | 29 |
| 7.... | 12 | 12 | 16 | 11 | 16 | 35 | 29 | 90 | 205 | 40 | 305 | 10 |
| 8.... | 12 | 13 | 16 | 12 | 15 | 15 | 37 | 112 | 190 | 35 | 152 | 35 |
| 9.... | 18 | 11 | 15 | 13 | 13 | 18 | 27 | 90 | 185 | 24 | 52 | 99 |
| 10.... | 32 | 16 | 12 | 14 | 15 | 19 | 19 | 37 | 180 | 27 | 37 | 592 |
| 11.... | 18 | 15 | 9.2 | 15 | 17 | 19 | 19 | 24 | 161 | 42 | 37 | 52 |
| 12.... | 19 | 13 | 18 | 15 | 12 | 19 | 19 | 42 | 143 | 56 | 40 | 18 |
| 13.... | 29 | 15 | 15 | 13 | 14 | 24 | 13 | 63 | 138 | 175 | 40 | 18 |
| 14.... | 27 | 15 | 6.4 | 10 | 16 | 12 | 6.4 | 77 | 130 | 130 | 40 | 18 |
| 15.... | 29 | 15 | 15 | 13 | 17 | 19 | 5.0 | 70 | 90 | 103 | 40 | 32 |
| 16.... | 32 | 19 | 12 | 14 | 15 | 19 | 4.5 | 63 | 77 | 121 | 40 | 19 |
| 17.... | 22 | 16 | 12 | 15 | 12 | 19 | 15 | 85 | 90 | 40 | 29 | 15 |
| 18.... | 22 | 16 | 11 | 15 | 11 | 19 | 35 | 205 | 74 | 24 | 22 | 32 |
| 19.... | 22 | 19 | 11 | 9 | 11 | 22 | 103 | 185 | 81 | 32 | 35 | 42 |
| 20.... | 16 | 18 | 10 | 8 | 11 | 19 | 90 | 125 | 77 | 49 | 103 | 63 |
| 21.... | 18 | 18 | 11 | 9 | 11 | 22 | 49 | 112 | 94 | 330 | 59 | 52 |
| 22.... | 24 | 17 | 11 | 8 | 12 | 24 | 42 | 152 | 99 | 107 | 81 | 63 |
| 23.... | 15 | 17 | 12 | 8 | 16 | 19 | 42 | 134 | 85 | 59 | 130 | 230 |
| 24.... | 11 | 16 | 11 | 8 | 18 | 19 | 37 | 112 | 85 | 35 | 85 | 138 |
| 25.... | 9.2 | 16 | 10 | 8 | 19 | 22 | 37 | 107 | 70 | 15 | 56 | 63 |
| 26.... | 12 | 13 | 9 | 10 | 19 | 19 | 42 | 148 | 56 | 11 | 49 | 52 |
| 27.... | 12 | 11 | 9 | 12 | 27 | 22 | 42 | 148 | 45 | 19 | 37 | 40 |
| 28.... | 13 | 16 | 10 | 14 | 24 | 22 | 42 | 245 | 42 | 19 | 35 | 40 |
| 29.... | 15 | 16 | 10 | 15 | 24 | 24 | 45 | 195 | 40 | 45 | 37 | 40 |
| 30.... | 5.0 | 16 | 11 | 16 | .... | 19 | 42 | 180 | 32 | 90 | 67 | 37 |
| 31.... | 11 | .... | 14 | 16 | .... | 18 | .... | 190 | .... | 49 | 94 | .... |
| Total | 561.2 | 430.8 | 389.6 | 382 | 454 | 649 | 957.9 | 3288 | 3949 | 2165 | 2012 | 2038 |
| Mean. | 18.1 | 14.4 | 12.6 | 12.3 | 15.7 | 20.9 | 31.9 | 106 | 132 | 69.8 | 64.9 | 67.9 |
| Max.. | 32 | 19 | 18 | 16 | 27 | 35 | 103 | 245 | 310 | 330 | 305 | 592 |
| Min.. | 5.0 | 5.0 | 6.4 | 8 | 11 | 12 | 4.5 | 22 | 32 | 11 | 22 | 15 |
| Acre-ft. | 1110 | 854 | 773 | 753 | 900 | 1290 | 1900 | 6520 | 7830 | 4290 | 3990 | 4040 |

Total run-off for water year 1939-40—34,260 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Purgatoire River at Nine Mile Dam near Higbee, Colorado, for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|--------|-------|-------|-------|-------|------|-------|-------|-------|--------|--------|-------|
| 1.... | 11 | 17 | 44 | 7.0 | 14 | 19 | 29 | 4.0 | 6.9 | 14 | 69 | 3.0 |
| 2.... | 11 | 15 | 38 | 15 | 5.2 | 38 | 14 | 3.4 | 24 | 4.8 | 33 | 0.9 |
| 3.... | 11 | 28 | 40 | 15 | 3.4 | 29 | 4.6 | 4.6 | 36 | 3.2 | 149 | 0 |
| 4.... | 11 | 28 | 31 | 17 | 15 | 18 | 4.0 | 170 | 18 | 0.9 | 158 | 0 |
| 5.... | 10 | 21 | 22 | 14 | 14 | 33 | 4.6 | 36 | 7.3 | 0 | 65 | 0 |
| 6.... | 9.4 | 40 | 28 | 19 | 13 | 51 | 11 | 13 | 5.1 | 0 | 23 | 0 |
| 7.... | 9.4 | 31 | 26 | 19 | 12 | 44 | 46 | 6.5 | 2.0 | 0 | 19 | 0 |
| 8.... | 12 | 46 | 31 | 36 | 11 | 51 | 49 | 6.4 | 0 | 356 | 14 | 0 |
| 9.... | 220 | 34 | 28 | 42 | 11 | 53 | 57 | 5.6 | 0 | 269 | 25 | 0 |
| 10.... | 166 | 44 | 26 | 34 | 11 | 53 | 62 | 3.5 | 0 | 28 | 30 | 0 |
| 11.... | 105 | 44 | 26 | 24 | 13 | 50 | 69 | 2.4 | 0 | 12 | 13 | 0 |
| 12.... | 69 | 33 | 26 | 14 | 26 | 51 | 60 | 2.5 | 0 | 4.4 | 10 | 0 |
| 13.... | 51 | 24 | 24 | 17 | 21 | 46 | 53 | 1.9 | 0 | 1.8 | 16 | 0 |
| 14.... | 46 | 19 | 24 | 22 | 26 | 55 | 42 | 5.8 | 0 | 0 | 69 | 0 |
| 15.... | 34 | 15 | 23 | 2.8 | 29 | 46 | 36 | 3.5 | 0 | 0 | 49 | 0 |
| 16.... | 22 | 12 | 17 | 0.9 | 14 | 67 | 40 | 2.8 | 0 | 3.2 | 30 | 0 |
| 17.... | 18 | 15 | 24 | 0.8 | 26 | 74 | 47 | 2.7 | 0 | 1.2 | 15 | 0 |
| 18.... | 15 | 15 | 20 | 5.8 | 46 | 65 | 40 | 3.0 | 0 | 1.2 | 5.2 | 0 |
| 19.... | 15 | 18 | 18 | 11 | 26 | 67 | 40 | 2.8 | 0 | 0 | 15 | 0 |
| 20.... | 14 | 19 | 18 | 13 | 6.4 | 60 | 44 | 2.7 | 5.4 | 0 | 734 | 0 |
| 21.... | 13 | 13 | 31 | 24 | 27 | 69 | 40 | 1.8 | 74 | 0 | 136 | 0 |
| 22.... | 13 | 12 | 22 | 21 | 31 | 84 | 31 | 1.2 | 14 | 0 | 189 | 0 |
| 23.... | 19 | 0.6 | 22 | 26 | 22 | 95 | 24 | 0 | 1.8 | 24 | 100 | 0 |
| 24.... | 22 | 11 | 21 | 26 | 7.0 | 95 | 12 | 0 | 0 | 24 | 29 | 0 |
| 25.... | 21 | 8.2 | 21 | 33 | 9.4 | 102 | 9.4 | 0 | 1.2 | 3.8 | 26 | 0 |
| 26.... | 18 | 13 | 4.6 | 28 | 17 | 77 | 8.2 | 0 | 19 | 1.6 | 121 | 0 |
| 27.... | 19 | 19 | 7.0 | 33 | 0.7 | 84 | 6.4 | 0.8 | 44 | 4.6 | 175 | 0 |
| 28.... | 17 | 19 | 14 | 28 | 5.8 | 67 | 8.2 | 0.2 | 20 | 1.6 | 53 | 0 |
| 29.... | 24 | 31 | 13 | 31 | ... | 53 | 8.2 | 1.8 | 41 | 120 | 27 | 0 |
| 30.... | 24 | 34 | 28 | 34 | ... | 40 | 5.8 | 1.5 | 38 | 189 | 17 | 0 |
| 31.... | 21 | ... | 21 | 28 | ... | 36 | ... | 6.1 | ... | 120 | 10 | ... |
| Total | 1070.8 | 678.8 | 738.6 | 641.3 | 462.9 | 1772 | 905.4 | 343.3 | 406.3 | 1202.7 | 2424.2 | 3.90 |
| Mean.. | 34.5 | 22.6 | 23.8 | 20.7 | 16.5 | 57.2 | 30.2 | 11.1 | 13.5 | 38.8 | 78.2 | 0.13 |
| Max... | 220 | 46 | 44 | 42 | 46 | 102 | 69 | 170 | 74 | 356 | 734 | 3.0 |
| Min... | 9.4 | 0.6 | 4.6 | 0.8 | 0.7 | 18 | 4 | 0 | 0 | 0 | 5.2 | 0 |
| Acre-ft. | 2120 | 1350 | 1460 | 1270 | 918 | 3510 | 1800 | 681 | 806 | 2390 | 4810 | 7.7 |

Total run-off for water year 1938-39=21,120 acre-feet.

Discharge of Purgatoire River at Nine Mile Dam Near Higbee, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|-------|-------|-------|------|--------|--------|--------|--------|--------|--------|
| 1.... | 0 | 0 | 7.6 | 5.0 | 2.2 | 40 | 25 | 12 | 40 | 222 | 0.2 | 11 |
| 2.... | 0 | 0 | 8.2 | 8.0 | 3.0 | 42 | 13 | 12 | 32 | 220 | 0 | 5.1 |
| 3.... | 0 | 0 | 8.2 | 10 | 3.5 | 38 | 13 | 11 | 26 | 12 | 4.9 | 2.0 |
| 4.... | 0 | 0 | 8.2 | 9.5 | 4.0 | 33 | 18 | 8.9 | 25 | 4 | 83 | 0.5 |
| 5.... | 0 | 0 | 6.2 | 8.2 | 4.5 | 34 | 14 | 7.3 | 14 | 27 | 127 | 35 |
| 6.... | 0 | 0 | 6.2 | 7.3 | 28 | 34 | 14 | 4.6 | 27 | 52 | 32 | 84 |
| 7.... | 0 | 0 | 6.5 | 9.0 | 21 | 40 | 12 | 3.9 | 111 | 37 | 15 | 20 |
| 8.... | 0 | 0 | 6.4 | 9.0 | 24 | 33 | 13 | 4.2 | 72 | 22 | 9.5 | 10 |
| 9.... | 0 | 0 | 7.0 | 9.5 | 24 | 33 | 11 | 3.9 | 136 | 11 | 3.5 | 5.7 |
| 10.... | 0 | 0 | 7.3 | 8.9 | 8.0 | 33 | 13 | 2.5 | 2090 | 6.2 | 0.7 | 4950 |
| 11.... | 0 | 0.3 | 6.5 | 9.0 | 15 | 33 | 33 | 1.8 | 310 | 4.5 | 3.4 | 1550 |
| 12.... | 0 | 1.6 | 5.7 | 9.7 | 20 | 44 | 22 | 2.0 | 21 | 102 | 6.6 | 253 |
| 13.... | 0 | 1.9 | 5.7 | 3.1 | 12 | 60 | 14 | 2.0 | 87 | 47 | 7.6 | 129 |
| 14.... | 0 | 2.2 | 6.8 | 3.0 | 10 | 44 | 6.4 | 2.0 | 57 | 50 | 1.2 | 84 |
| 15.... | 0 | 3.0 | 5.9 | 4.0 | 20 | 35 | 4.0 | 2.0 | 47 | 74 | 0 | 106 |
| 16.... | 0 | 3.3 | 5.7 | 4.0 | 25 | 33 | 4.0 | 2.5 | 38 | 28 | 49 | 63 |
| 17.... | 0 | 3.5 | 5.7 | 8.0 | 15 | 27 | 46 | 3.9 | 34 | 8.7 | 82 | 38 |
| 18.... | 0 | 3.5 | 4.6 | 3.0 | 15 | 27 | 84 | 6.4 | 31 | 2.2 | 461 | 25 |
| 19.... | 0 | 2.5 | 4.2 | 1.5 | 16 | 28 | 46 | 6.4 | 18 | 2.0 | 375 | 23 |
| 20.... | 0 | 3.7 | 4.0 | 1.0 | 18 | 30 | 189 | 7.7 | 9.4 | 1.0 | 136 | 22 |
| 21.... | 0 | 4.9 | 4.9 | 1.5 | 16 | 33 | 302 | 62 | 5.8 | 21 | 47 | 13 |
| 22.... | 0 | 5.4 | 4.5 | 1.0 | 14 | 30 | 194 | 89 | 33 | 9.0 | 23 | 16 |
| 23.... | 0 | 5.1 | 4.0 | 1.0 | 19 | 28 | 136 | 450 | 84 | 0.2 | 276 | 13 |
| 24.... | 0 | 5.6 | 2.9 | 2.0 | 20 | 30 | 97 | 133 | 49 | 0 | 209 | 74 |
| 25.... | 0 | 5.6 | 1.2 | 1.0 | 23 | 37 | 65 | 95 | 24 | 1.0 | 104 | 129 |
| 26.... | 0 | 4.5 | 1.0 | 1.0 | 27 | 45 | 40 | 51 | 9.4 | 3.2 | 19 | 118 |
| 27.... | 0 | 4.1 | 1.0 | 1.7 | 28 | 48 | 28 | 67 | 4.6 | 4.7 | 11 | 69 |
| 28.... | 0 | 5.6 | 1.3 | 2.0 | 58 | 48 | 25 | 250 | 3.4 | 1.6 | 5 | 55 |
| 29.... | 0 | 7.4 | 1.5 | 2.1 | 47 | 38 | 18 | 77 | 1.6 | 35 | 7 | 42 |
| 30.... | 0 | 10 | 2.0 | 2.4 | ... | 42 | 14 | 100 | 0.7 | 13 | 10 | 32 |
| 31.... | 0 | ... | 3.8 | 2.3 | ... | 35 | ... | 95 | ... | 3.2 | 69 | ... |
| Total | 0 | 83.7 | 154.7 | 148.7 | 540.2 | 1135 | 1513.4 | 1645.3 | 3440.9 | 1024.5 | 2177.6 | 7977.3 |
| Mean.. | 0 | 2.70 | 4.99 | 4.80 | 18.6 | 36.6 | 50.4 | 53.1 | 115 | 33.0 | 70.2 | 266 |
| Max... | 0 | 10 | 8.2 | 10 | 58 | 60 | 302 | 450 | 2090 | 222 | 461 | 4950 |
| Min... | 0 | 0 | 1.0 | 1 | 2.2 | 27 | 4 | 1.8 | 0.7 | 0 | 0 | 0.5 |
| Acre-ft. | 0 | 166 | 307 | 295 | 1070 | 2250 | 3000 | 3260 | 6820 | 2030 | 4320 | 15820 |

Total run-off for water year 1939-40=39,340 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Purgatoire River at Highland (Carmen) Dam Near Las Animas, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|--------|-------|-------|------|------|------|-------|-------|-------|-------|--------|-------|
| 1..... | 8.8 | 15 | 25 | 14 | 20 | 5 | 17 | 2.0 | 7.0 | 86 | 138 | 16 |
| 2..... | 6.7 | 12 | 26 | 25 | 15 | 10 | 20 | 1.6 | 4.1 | 35 | 54 | 7.8 |
| 3..... | 5.4 | 14 | 42 | 15 | 12 | 28 | 21 | 2.7 | 2.9 | 7.0 | 33 | 1.7 |
| 4..... | 4.8 | 24 | 41 | 14 | 14 | 57 | 19 | 38 | 15 | 2.7 | 163 | 0 |
| 5..... | 4.6 | 27 | 28 | 10 | 17 | 59 | 21 | 53 | 12 | 1.4 | 92 | 0 |
| 6..... | 4.6 | 35 | 21 | 11 | 16 | 151 | 28 | 23 | 6.7 | 1.2 | 71 | 0 |
| 7..... | 2.5 | 38 | 20 | 13 | 14 | 70 | 31 | 13 | 2.5 | 1.0 | 25 | 0 |
| 8..... | 2.1 | 58 | 19 | 25 | 13 | 40 | 80 | 9.5 | 1.1 | 2.3 | 17 | 0 |
| 9..... | 7.7 | 74 | 17 | 56 | 14 | 43 | 52 | 3.5 | 1.0 | 231 | 11 | 0 |
| 10..... | 35.8 | 56 | 13 | 44 | 17 | 66 | 47 | 1.1 | 1.0 | 78 | 5.1 | 0 |
| 11..... | 188 | 37 | 11 | 41 | 28 | 71 | 65 | 0.5 | 0.9 | 32 | 6.4 | 0 |
| 12..... | 105 | 31 | 9.2 | 22 | 36 | 45 | 63 | 0 | 0.7 | 12 | 8.7 | 0 |
| 13..... | 7.9 | 22 | 9.8 | 19 | 66 | 32 | 36 | 0.6 | 0 | 3.9 | 3.3 | 0 |
| 14..... | 5.4 | 20 | 9.5 | 21 | 37 | 28 | 25 | 1.1 | 0 | 2.7 | 23 | 0 |
| 15..... | 4.1 | 14 | 11 | 14 | 42 | 28 | 20 | 0.5 | 0 | 2.3 | 42 | 0 |
| 16..... | 25 | 12 | 17 | 16 | 35 | 32 | 21 | 0 | 0 | 2.0 | 54 | 0 |
| 17..... | 21 | 18 | 17 | 18 | 32 | 54 | 26 | 0 | 0 | 1.9 | 23 | 0 |
| 18..... | 16 | 17 | 17 | 15 | 48 | 55 | 25 | 0 | 0 | 0 | 11 | 0 |
| 19..... | 13 | 20 | 11 | 13 | 69 | 46 | 21 | 0 | 0 | 0 | 7.0 | 0 |
| 20..... | 12 | 21 | 17 | 13 | 34 | 54 | 23 | 0 | 0 | 0 | 947 | 0 |
| 21..... | 12 | 22 | 21 | 18 | 30 | 43 | 23 | 0 | 3.5 | 0 | 334 | 0 |
| 22..... | 10 | 20 | 18 | 19 | 42 | 49 | 20 | 0 | 4.6 | 0 | 132 | 0 |
| 23..... | 12 | 14 | 28 | 21 | 86 | 74 | 16 | 0 | 12 | 0 | 251 | 0 |
| 24..... | 16 | 12 | 28 | 26 | 69 | 83 | 13 | 0 | 5.7 | 0 | 116 | 0 |
| 25..... | 17 | 9.5 | 15 | 26 | 32 | 103 | 11 | 8.9 | 4.1 | 0 | 69 | 0 |
| 26..... | 16 | 9.0 | 15 | 21 | 39 | 63 | 11 | 26 | 1.7 | 0 | 34 | 0 |
| 27..... | 15 | 9.0 | 13 | 18 | 20 | 55 | 9.8 | 11 | 2.3 | 0 | 180 | 0 |
| 28..... | 15 | 9.4 | 12 | 15 | 10 | 74 | 8.9 | 9.5 | 21 | 0 | 138 | 0 |
| 29..... | 13 | 12 | 11 | 16 | .... | 51 | 5.9 | 9.2 | 29 | 0 | 82 | 0 |
| 30..... | 16 | 16 | 13 | 25 | .... | 28 | 0.5 | 8.7 | 66 | 141 | 36 | 0 |
| 31..... | 18 | .... | 12 | 21 | .... | 20 | .... | 7.3 | .... | 135 | 19 | .... |
| Total | 1188.5 | 697.9 | 567.5 | 645 | 907 | 1617 | 780.1 | 230.7 | 277.7 | 778.4 | 3125.5 | 25.5 |
| Mean. | 38.3 | 23.3 | 18.3 | 20.8 | 32.4 | 52.2 | 26.0 | 7.44 | 9.26 | 25.1 | 101 | 0.85 |
| Max.... | 35.8 | 74 | 42 | 56 | 86 | 151 | 80 | 53 | 66 | 231 | 947 | 16 |
| Min.... | 2.1 | 9 | 9.2 | 10 | 10 | 5 | 0.5 | 0 | 0 | 0 | 3.3 | 0 |
| Acre-ft. | 2360 | 1380 | 1130 | 1280 | 1800 | 3210 | 1550 | 458 | 551 | 1540 | 6200 | 51 |

Total run-off for water year 1938-39=21,510 acre-feet.

Discharge of Purgatoire River at Highland (Carmen) Dam Near Las Animas, Colo., for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|-------|------|------|--------|--------|--------|--------|--------|
| 1.... | 0 | 0 | 0 | 2.6 | 0.5 | 63 | 29 | 17 | 88 | 0 | 8.4 | 15 |
| 2.... | 0 | 0 | 0 | 3.2 | 0.5 | 94 | 19 | 14 | 70 | 182 | 2.0 | 17 |
| 3.... | 0 | 0 | 0 | 4.0 | 0.6 | 88 | 13 | 13 | 49 | 40 | 0 | 11 |
| 4.... | 0 | 0 | 0 | 3.8 | 2.0 | 59 | 13 | 14 | 41 | 6.2 | 68 | 5.1 |
| 5.... | 0 | 0 | 0 | 3.3 | 6.0 | 40 | 13 | 11 | 326 | 1.4 | 186 | 2.3 |
| 6.... | 0 | 0 | 0 | 3.0 | 5.8 | 52 | 15 | 8.7 | 66 | 21 | 105 | 1.2 |
| 7.... | 0 | 0 | 0 | 2.5 | 8.9 | 65 | 18 | 7.0 | 58 | 44 | 37 | 23 |
| 8.... | 0 | 0 | 0 | 2.5 | 18 | 60 | 14 | 10 | 92 | 42 | 23 | 14 |
| 9.... | 0 | 0 | 0 | 2.4 | 18 | 50 | 13 | 8.7 | 70 | 9.2 | 11 | 6.2 |
| 10.... | 0 | 0 | 2.7 | 2.5 | 30 | 38 | 13 | 6.7 | 2570 | 1.0 | 6.4 | 1030 |
| 11.... | 0 | 0 | 4.4 | 2.5 | 31 | 37 | 16 | 3.3 | 669 | 0 | 27 | 2830 |
| 12.... | 0 | 0 | 4.9 | 3.2 | 27 | 50 | 20 | 2.3 | 180 | 0 | 31 | 318 |
| 13.... | 0 | 0 | 3.1 | 4.0 | 7.5 | 82 | 20 | 1.6 | 116 | 205 | 5.7 | 129 |
| 14.... | 0 | 0 | 2.7 | 4.2 | 9.2 | 78 | 16 | 0.8 | 92 | 69 | 3.1 | 96 |
| 15.... | 0 | 0 | 2.0 | 4.3 | 11 | 63 | 13 | 0.6 | 74 | 94 | 0.8 | 77 |
| 16.... | 0 | 0 | 3.7 | 4.4 | 5.1 | 38 | 12 | 0.6 | 59 | 55 | 0 | 96 |
| 17.... | 0 | 0 | 4.1 | 3.6 | 8.9 | 46 | 22 | 5.4 | 44 | 15 | 561 | 54 |
| 18.... | 0 | 0 | 3.9 | 3.2 | 4.9 | 51 | 53 | 19 | 31 | 6.2 | 107 | 32 |
| 19.... | 0 | 0 | 2.5 | 3.0 | 13 | 65 | 67 | 14 | 23 | 3.9 | 459 | 23 |
| 20.... | 0 | 0 | 1.9 | 3.4 | 13 | 54 | 57 | 22 | 17 | 2.9 | 318 | 17 |
| 21.... | 0 | 0 | 1.9 | 3.3 | 13 | 44 | 218 | 94 | 13 | 1.7 | 110 | 16 |
| 22.... | 0 | 0 | 2.1 | 3.3 | 16 | 46 | 212 | 84 | 9.2 | 115 | 50 | 12 |
| 23.... | 0 | 0 | 1.9 | 3.0 | 16 | 28 | 132 | 259 | 6.4 | 14 | 64 | 11 |
| 24.... | 0 | 0 | 1.3 | 2.5 | 19 | 29 | 99 | 281 | 70 | 0.6 | 126 | 11 |
| 25.... | 0 | 0 | 1.3 | 2.4 | 22 | 31 | 76 | 119 | 37 | 0 | 103 | 90 |
| 26.... | 0 | 0 | 1.0 | 2.0 | 24 | 41 | 57 | 72 | 12 | 1450 | 50 | 142 |
| 27.... | 0 | 0 | 0.8 | 2.0 | 29 | 63 | 44 | 55 | 5.4 | 129 | 24 | 92 |
| 28.... | 0 | 0 | 0.9 | 2.0 | 32 | 59 | 35 | 334 | 1.7 | 13 | 20 | 58 |
| 29.... | 0 | 0 | 1.0 | 1.6 | 88 | 55 | 23 | 119 | 0 | 4.1 | 17 | 35 |
| 30.... | 0 | 0 | 1.3 | 1.0 | .... | 43 | 20 | 65 | 0 | 71 | 14 | 223 |
| 31.... | 0 | .... | 1.8 | 0.8 | .... | 48 | .... | 129 | .... | 59 | 11 | .... |
| Total | 0 | 0 | 51.2 | 89.5 | 479.9 | 1660 | 1372 | 1790.7 | 4889.7 | 2655.2 | 2548.4 | 5486.8 |
| Mean. | 0 | 0 | 1.65 | 2.89 | 16.5 | 53.5 | 45.7 | 57.8 | 163 | 85.7 | 82.2 | 183 |
| Max.... | 0 | 0 | 4.9 | 4.4 | 88 | 94 | 218 | 334 | 2570 | 1450 | 561 | 2830 |
| Min.... | 0 | 0 | 0 | 0.8 | 0.5 | 28 | 12 | 0.6 | 0 | 0 | 0 | 1.2 |
| Acre-ft. | 0 | 0 | 102 | 178 | 952 | 3290 | 2720 | 3550 | 9700 | 5270 | 5050 | 10880 |

Total run-off for water year 1939-40=41,690 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Wild Horse Creek Near Holly, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|---------|------|-------|-------|-------|-------|------|-------|------|------|-------|
| 1..... | | | 0 | 1.5 | 5.2 | 0 | 0 | 1.4 | 16 | 0 | 0 | 0 |
| 2..... | | | 0 | 1.5 | 4.1 | 0 | 0 | 0 | .33 | 4.2 | 0 | 0 |
| 3..... | | | 0 | 1.0 | 4.1 | 0 | 0 | 0 | 18 | 11 | 0 | 0 |
| 4..... | | | 0 | 101 | 4.1 | 0 | 4.4 | 0 | 14 | 9 | 0 | 0 |
| 5..... | | | 0 | 16 | 4.1 | 0 | 3.4 | 0 | 14 | 5.6 | 0 | 0 |
| 6..... | | | 3.8 | 5.9 | 4.1 | 0 | 19 | 0 | 8.4 | 2.4 | 0 | 0 |
| 7..... | | | 12 | 4.6 | 4.1 | 12 | 8.1 | 0 | 6.6 | 0 | 0 | 0 |
| 8..... | | | 3.9 | 12 | 3.9 | 6 | 12 | 0 | 7.2 | 0 | 0 | 0 |
| 9..... | | | 4.3 | 4.8 | 12 | 15 | 9 | 0 | 5.6 | 0 | 0 | 0 |
| 10..... | | | 0 | 3.1 | 6.4 | 34 | 29 | 0 | 7.2 | 0 | 0 | 0 |
| 11..... | | | 0 | 9.7 | 12 | 46 | 54 | 0 | 9.6 | 0 | 0 | 0 |
| 12..... | | | 0 | 9.1 | 9.1 | 20 | 3.9 | 0 | 35 | 0 | 0 | 0 |
| 13..... | | | 0.2 | 6.7 | 33 | 15 | 6 | 0 | 0 | 0 | 0 | 0 |
| 14..... | | | 0.2 | 108 | 0 | 7.8 | 5.6 | 0 | 0 | 0 | 0 | 0 |
| 15..... | | Nov. 17 | 0 | 48 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| 16..... | | to 30 | 0 | 9.1 | 0 | 0 | 0 | 2.0 | 0 | 0 | 0 | 0 |
| 17..... | | 6.9 | 0 | 0 | 0 | 3.9 | 0 | 1.2 | 0 | 0 | 0 | 0 |
| 18..... | | 6.0 | 0 | 0 | 0 | 61 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19..... | | 5.0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20..... | | 5.0 | 0 | 5.2 | 0 | 18 | 3.6 | 0.4 | 0 | 0 | 0 | 0 |
| 21..... | | 3.0 | 0 | 22 | 0 | 11 | 20 | 17 | 0 | 0 | 0 | 0 |
| 22..... | | 0 | 0 | 20 | 0 | 5.8 | 24 | 5 | 0 | 0 | 0 | 0 |
| 23..... | | 0 | 0 | 25 | 0 | 3.6 | 22 | 1.3 | 0 | 0 | 0 | 0 |
| 24..... | | 0 | 0.4 | 19 | 0 | 2.0 | 21 | 0 | 0 | 0 | 0 | 0 |
| 25..... | | 0 | 0 | 6.4 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 |
| 26..... | | 1.0 | 0 | 1.9 | 0 | 0 | 8.7 | 26 | 0 | 0 | 0 | 0 |
| 27..... | | 0 | 0 | 0.5 | 0 | 0 | 4.8 | 9 | 0 | 0 | 0 | 0 |
| 28..... | | 0 | 0 | 0.3 | 0 | 5.8 | 4.2 | 7.8 | 0 | 0 | 0 | 0 |
| 29..... | | 1.5 | 0 | 0.2 | .... | 2.8 | 4.4 | 12 | 0 | 0 | 0 | 0 |
| 30..... | | 1.0 | 0 | 2.2 | .... | 20 | 3.8 | 0 | 0 | 0 | 0 | 0 |
| 31..... | | | 0 | 64 | .... | 4 | .... | 0 | .... | 0 | 0 | .... |
| Total | | 29.4 | 59.9 | 508.7 | 141.3 | 384.0 | 354.6 | 83.1 | 174.6 | 32.2 | 0 | 0 |
| Mean | | 2.1 | 1.93 | 16.4 | 5.05 | 12.4 | 11.8 | 2.68 | 5.82 | 1.04 | 0 | 0 |
| Max. | | 6.9 | 3.9 | 108 | 3.9 | 61 | 54 | 26 | 35 | 11 | 0 | 0 |
| Min. | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Acre-ft. | | 58 | 119 | 1010 | 280 | 762 | 703 | 165 | 346 | 64 | 0 | 0 |

Total run-off for period=3,507 acre-feet.

Discharge of Wild Horse Creek Near Holly, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | |
|----------|-------|------|-------|------|------|------|------|-------|-------|------|------|-------|----|
| 1..... | 0 | 0 | 5.1 | 10 | 0 | 4.5 | 0 | 0 | 13 | 0 | 0 | 0 | |
| 2..... | 0 | 0 | 4.9 | 10 | 0 | 0.1 | 4.6 | 0 | 10 | 0 | 0 | 0 | |
| 3..... | 0 | 0 | 5.3 | 10 | 0 | 0 | 6.0 | 0 | 17 | 0 | 0 | 0 | |
| 4..... | 0 | 0 | 5.5 | 10 | 0 | 0 | 4.3 | 0 | 13 | 0 | 0 | 0.1 | |
| 5..... | 0 | 0 | 6.0 | 10 | 0 | 0 | 3.3 | 0 | 5.1 | 0 | 0 | 0.1 | |
| 6..... | 0 | 0 | 7.0 | 10 | 0 | 0 | 2.5 | 0 | 35 | 0 | 0 | 0 | |
| 7..... | 0 | 0 | 7.8 | 10 | 0 | 0 | 3.3 | 0 | 55 | 0 | 0 | 0 | |
| 8..... | 0 | 0 | 7.8 | 10 | 0 | 0 | 2.0 | 83 | 12 | 0 | 3.0 | 0 | |
| 9..... | 0 | 0 | 8.3 | 11 | 0 | 0 | 1.2 | 0.4 | 16 | 0 | 0 | 0 | |
| 10..... | 0 | 0 | 8.6 | 11 | 0 | 0 | 0.4 | 0 | 22 | 0 | 0 | 0 | |
| 11..... | 0 | 0 | 8.6 | 11 | 0 | 0 | 4.3 | 0 | 17 | 0 | 0 | 0 | |
| 12..... | 0 | 0 | 8.3 | 11 | 0 | 0 | 4.9 | 0 | 55 | 0.2 | 0 | 2.6 | |
| 13..... | 0 | 0 | 8.6 | 10 | 0 | 0 | 5.3 | 0 | 42 | 0 | 0 | 2.2 | |
| 14..... | 0 | 0 | 10 | 8 | 0 | 0 | 5.5 | 2.2 | 22 | 0 | 0 | 3.6 | |
| 15..... | 0 | 0 | 9.5 | 6 | 0 | 0 | 3.5 | 3.6 | 18 | 0 | 0 | 1.8 | |
| 16..... | 0 | 0 | 9.5 | 2 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0.8 | |
| 17..... | 0 | 0 | 9.2 | 2 | 0 | 0 | 0 | 0 | 10 | 0 | 2.3 | 0.1 | |
| 18..... | 0 | 0 | 8.3 | 0 | 0 | 0 | 0 | 0 | 8.9 | 0 | 0 | 0 | |
| 19..... | 0 | 0 | 8.0 | 0 | 0 | 0 | 0 | 0 | 6.2 | 0 | 0 | 0 | |
| 20..... | 0 | 0 | 8.0 | 0 | 0 | 0 | 0 | 0 | 2.3 | 0 | 0.3 | 0 | |
| 21..... | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 3.9 | 0 | 0 | 0 | |
| 22..... | 0 | 0.3 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 23..... | 0 | 0.3 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 | |
| 24..... | 0 | 0.5 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.7 | |
| 25..... | 0 | 8.0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 | |
| 26..... | 0 | 5.5 | 9 | 0 | 0 | 0 | 0.8 | 0 | 0 | 0 | 0 | 0 | |
| 27..... | 0 | 5.5 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 28..... | 0 | 5.5 | 9 | 0 | 0 | 0.4 | 1.2 | 0 | 0 | 0 | 0 | 0 | |
| 29..... | 0 | 5.5 | 9 | 0 | 2.0 | 0.3 | 3.3 | 10 | 0 | 0 | 0 | 0.5 | |
| 30..... | 0 | 5.5 | 9 | 0 | .... | 0.2 | 3.7 | 9.5 | 0 | 0 | 0 | 4.1 | |
| 31..... | 0 | .... | 9 | 0 | .... | 0.2 | .... | 13 | .... | 0 | 0 | .... |  |
| Total | ..... | 36.6 | 257.3 | 152 | 2.0 | 5.7 | 60.1 | 121.7 | 399.4 | 0.2 | 5.7 | 17.1 | |
| Mean | ..... | 1.22 | 8.3 | 4.9 | 0.07 | 0.18 | 2.00 | 3.93 | 13.3 | 0.01 | 0.18 | 0.57 | |
| Max. | ..... | 8.0 | 10 | 11 | 2.0 | 4.5 | 6.0 | 83 | 55 | 0.2 | 3 | 4.1 | |
| Min. | ..... | 0 | 4.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Acre-ft. | | 0 | 73 | 510 | 301 | 4 | 11 | 119 | 241 | 7.92 | 0.4 | 11 | 34 |

Total run-off for water year 1939-40=2,100 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Holly Drain Near Holly, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.... | 9.0 | 22 | 43 | 12 | 6.8 | 12 | 13 | 34 | 32 | 18 | 15 | 4.8 |
| 2.... | 7.0 | 18 | 50 | 12 | 9.4 | 12 | 44 | 66 | 30 | 17 | 15 | 3.0 |
| 3.... | 4.1 | 18 | 58 | 11 | 9.4 | 12 | 44 | 39 | 11 | 15 | 21 | 2.4 |
| 4.... | 4.1 | 19 | 50 | 10 | 10 | 12 | 28 | 30 | 8.1 | 14 | 14 | 2.0 |
| 5.... | 3.1 | 21 | 47 | 10 | 10 | 12 | 34 | 28 | 11 | 13 | 12 | 2.8 |
| 6.... | 2.6 | 20 | 30 | 14 | 10 | 13 | 38 | 26 | 14 | 9.3 | 11 | 3.2 |
| 7.... | 1.8 | 31 | 34 | 14 | 10 | 13 | 24 | 23 | 16 | 7.1 | 14 | 3.0 |
| 8.... | 2.8 | 43 | 51 | 13 | 10 | 7.5 | 32 | 17 | 19 | 5.5 | 18 | 3.2 |
| 9.... | 89 | 38 | 32 | 13 | 10 | 8.4 | 23 | 11 | 22 | 6.0 | 15 | 4.0 |
| 10.... | 40 | 54 | 28 | 12 | 10 | 7.8 | 21 | 11 | 21 | 8.7 | 15 | 4.5 |
| 11.... | 34 | 41 | 25 | 12 | 10 | 8.4 | 14 | 7.3 | 44 | 8.7 | 13 | 4.5 |
| 12.... | 48 | 44 | 20 | 11 | 10 | 12 | 12 | 9.0 | 42 | 13 | 12 | 4.0 |
| 13.... | 79 | 42 | 18 | 10 | 10 | 14 | 32 | 12 | 28 | 15 | 9.6 | 2.0 |
| 14.... | 77 | 41 | 16 | 13 | 10 | 12 | 31 | 8.7 | 28 | 18 | 10 | 0.9 |
| 15.... | 71 | 27 | 15 | 15 | 10 | 8.1 | 28 | 7.6 | 21 | 15 | 9.8 | 0.9 |
| 16.... | 48 | 22 | 15 | 17 | 10 | 7.1 | 21 | 2.6 | 20 | 15 | 10 | 2.8 |
| 17.... | 37 | 22 | 14 | 16 | 10 | 6.8 | 15 | 17 | 18 | 15 | 10 | 4.0 |
| 18.... | 36 | 23 | 14 | 15 | 10 | 6.8 | 10 | 11 | 18 | 15 | 12 | 4.0 |
| 19.... | 36 | 44 | 14 | 17 | 10 | 7.1 | 8.7 | 8.7 | 17 | 15 | 10 | 4.0 |
| 20.... | 42 | 36 | 11 | 19 | 10 | 11 | 6.5 | 10 | 17 | 13 | 10 | 4.5 |
| 21.... | 40 | 30 | 9.4 | 20 | 11 | 13 | 19 | 8.1 | 17 | 14 | 11 | 7.3 |
| 22.... | 35 | 29 | 10 | 19 | 11 | 9.8 | 21 | 19 | 25 | 18 | 15 | 3.0 |
| 23.... | 36 | 29 | 11 | 18 | 11 | 7.8 | 13 | 11 | 18 | 19 | 15 | 3.0 |
| 24.... | 36 | 29 | 11 | 14 | 11 | 7.1 | 7.6 | 14 | 10 | 21 | 14 | 3.5 |
| 25.... | 35 | 30 | 12 | 12 | 11 | 7.1 | 8.1 | 25 | 11 | 20 | 13 | 3.2 |
| 26.... | 39 | 31 | 12 | 10 | 12 | 9.6 | 8.1 | 28 | 8.1 | 15 | 18 | 5.0 |
| 27.... | 44 | 31 | 12 | 8.5 | 12 | 13 | 7.6 | 27 | 14 | 15 | 18 | 5.5 |
| 28.... | 27 | 32 | 12 | 8.0 | 12 | 67 | 7.3 | 27 | 9.0 | 16 | 11 | 5.0 |
| 29.... | 26 | 33 | 12 | 8.0 | .... | 67 | 6.8 | 32 | 11 | 15 | 11 | 4.2 |
| 30.... | 24 | 32 | 12 | 7.9 | .... | 48 | 6.5 | 24 | 25 | 15 | 8.7 | 4.5 |
| 31.... | 24 | .... | 12 | 7.9 | .... | 23 | .... | 28 | .... | 15 | 6.0 | .... |
| Total | 1037.5 | 932 | 710.4 | 399.3 | 286.6 | 475.4 | 584.2 | 645.4 | 585.2 | 439.3 | 397.1 | 108.7 |
| Mean.. | 33.5 | 31.1 | 22.9 | 12.9 | 10.2 | 15.3 | 19.5 | 20.8 | 19.5 | 14.2 | 12.8 | 3.62 |
| Max... | 89 | 54 | 58 | 20 | 12 | 67 | 44 | 66 | 44 | 21 | 21 | 7.3 |
| Min... | 1.8 | 18 | 9.4 | 7.9 | 6.8 | 6.8 | 6.5 | 7.3 | 8.1 | 5.5 | 6.0 | 0.9 |
| Acre-ft. | 2060 | 1850 | 1410 | 792 | 568 | 943 | 1160 | 1280 | 1160 | 871 | 788 | 216 |

Total run-off for water year 1938-39=13,098 acre-feet.

Discharge of Holly Drain Near Holly, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|-------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 1.... | 5.5 | 13 | 9.6 | 11 | 8.7 | 3.8 | 6.3 | 15 | 21 | 12 | 11 | 9.6 |
| 2.... | 5.0 | 13 | 9.8 | 12 | 8.7 | 5.2 | 6.0 | 19 | 21 | 12 | 8.4 | 8.7 |
| 3.... | 5.8 | 17 | 9.8 | 12 | 8.7 | 3.0 | 5.8 | 16 | 19 | 12 | 11 | 8.7 |
| 4.... | 6.0 | 13 | 9.8 | 14 | 8.7 | 11 | 6.0 | 15 | 21 | 9.6 | 9.8 | 8.4 |
| 5.... | 7.8 | 13 | 10 | 14 | 11 | 12 | 5.8 | 15 | 25 | 9.3 | 9.0 | 9.3 |
| 6.... | 11 | 13 | 12 | 15 | 9.0 | 7.6 | 6.0 | 16 | 33 | 10 | 7.6 | 13 |
| 7.... | 12 | 17 | 12 | 15 | 9.3 | 7.3 | 5.8 | 15 | 41 | 11 | 7.8 | 12 |
| 8.... | 11 | 13 | 11 | 15 | 8.4 | 7.8 | 6.0 | 90 | 22 | 9.8 | 9.8 | 7.6 |
| 9.... | 10 | 13 | 11 | 15 | 7.3 | 7.6 | 6.3 | 32 | 21 | 10 | 9.6 | 7.6 |
| 10.... | 10 | 13 | 11 | 15 | 7.6 | 6.8 | 7.6 | 23 | 39 | 10 | 6.3 | 8.1 |
| 11.... | 11 | 14 | 11 | 15 | 9.6 | 7.1 | 12 | 21 | 30 | 10 | 6.3 | 8.7 |
| 12.... | 12 | 13 | 11 | 13 | 8.1 | 6.3 | 12 | 20 | 34 | 11 | 7.5 | 13 |
| 13.... | 16 | 17 | 11 | 15 | 7.8 | 6.8 | 13 | 19 | 34 | 13 | 7.1 | 14 |
| 14.... | 14 | 13 | 11 | 19 | 8.4 | 4.5 | 13 | 17 | 30 | 12 | 6.0 | 20 |
| 15.... | 12 | 13 | 11 | 13 | 7.8 | 5.0 | 13 | 17 | 25 | 11 | 5.5 | 19 |
| 16.... | 12 | 13 | 11 | 14 | 7.5 | 5.2 | 13 | 17 | 21 | 10 | 4.2 | 18 |
| 17.... | 14 | 13 | 10 | 14 | 6.8 | 5.0 | 15 | 19 | 17 | 10 | 6.6 | 17 |
| 18.... | 15 | 15 | 11 | 14 | 7.3 | 6.0 | 14 | 20 | 15 | 9.8 | 17 | 17 |
| 19.... | 16 | 14 | 11 | 14 | 9.3 | 6.8 | 13 | 18 | 13 | 9.6 | 13 | 15 |
| 20.... | 16 | 10 | 11 | 13 | 7.5 | 7.3 | 12 | 16 | 12 | 8.4 | 12 | 13 |
| 21.... | 16 | 11 | 11 | 13 | 5.0 | 7.1 | 12 | 16 | 13 | 7.6 | 12 | 9.6 |
| 22.... | 16 | 10 | 11 | 13 | 7.5 | 6.8 | 13 | 16 | 11 | 7.6 | 11 | 7.8 |
| 23.... | 16 | 10 | 11 | 13 | 4.5 | 7.5 | 13 | 16 | 9.6 | 7.3 | 10 | 12 |
| 24.... | 16 | 12 | 10 | 13 | 4.0 | 6.0 | 13 | 19 | 11 | 6.8 | 9.3 | 18 |
| 25.... | 12 | 12 | 9.8 | 13 | 4.0 | 6.3 | 12 | 19 | 11 | 5.8 | 9.0 | 10 |
| 26.... | 10 | 12 | 10 | 13 | 4.0 | 6.3 | 14 | 19 | 11 | 7.5 | 11 | 11 |
| 27.... | 10 | 12 | 19 | 12 | 3.8 | 5.8 | 17 | 21 | 13 | 7.5 | 11 | 11 |
| 28.... | 16 | 10 | 10 | 12 | 3.2 | 5.8 | 26 | 23 | 12 | 5.0 | 10 | 16 |
| 29.... | 12 | 10 | 12 | 12 | 3.5 | 5.5 | 17 | 23 | 11 | 5.2 | 10 | 23 |
| 30.... | 12 | 11 | 11 | 11 | .... | 5.8 | 14 | 23 | 12 | 5.5 | 12 | 38 |
| 31.... | 13 | .... | 12 | 10 | .... | 6.0 | .... | 23 | .... | 8.1 | 10 | .... |
| Total | 371.1 | 383 | 341.8 | 417 | 207.0 | 201.0 | 342.6 | 658 | 608.6 | 284.4 | 350.2 | 404.1 |
| Mean.. | 12.0 | 12.8 | 11.0 | 13.5 | 7.14 | 6.48 | 11.4 | 21.2 | 20.3 | 9.17 | 11.3 | 13.5 |
| Max... | 16 | 17 | 19 | 19 | 11 | 12 | 26 | 90 | 41 | 13 | 66 | 38 |
| Min... | 5 | 10 | 9.6 | 10 | 3.2 | 3 | 5.8 | 15 | 9.6 | 5 | 4.2 | 7.6 |
| Acre-ft. | 736 | 760 | 678 | 827 | 411 | 399 | 680 | 1310 | 1210 | 564 | 695 | 802 |

Total run-off for water year 1939-40=9,070 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

RIO GRANDE RIVER BASIN**RIO GRANDE RIVER AT THIRTY MILE BRIDGE NEAR
CREEDE, COLORADO**

Location—Water stage recorder in Sec. 13, T. 40 N., R. 4 W., 20 miles southwest of Creede and $\frac{3}{4}$ mile below Rio Grande Reservoir. Squaw Creek enters just below station.

Drainage Area—163 square miles. Altitude, 9,380 feet above mean sea level.

Records Available—June 18, 1909, to September 30, 1923; May 16, 1925, to September 30, 1940.

Maximum discharge observed during period 1909-23, 1925-40; 7,500 second feet, June 28, 1927. Gage height 7.03 feet.

Maximum Discharge—Year 1939; 1,180 second feet, May 30, 1939. Gage height 3.55 feet.

Maximum Discharge—Year 1940; 1,380 second feet, May 17, 1940. Gage height 3.79 feet.

Accuracy—Records considered excellent except for those from November 3, 1938, to April 16, 1939, and from November 19, 1939, to March 19, 1940; computed on basis of reservoir gate openings.

Diversions for storage above station. Flow regulated by Rio Grande Reservoir just above station; capacity 45,800 acre-feet.

**RIO GRANDE RIVER AT WASON, BELOW CREEDE,
COLORADO**

Location—Water stage recorder in Sec. 8, T. 41 N., R. 1 E., at Wason, 3 miles southeast of Creede.

Drainage Area—705 square miles. Altitude, 8,591 feet above mean sea level.

Records Available—April 24, 1907, to September 30, 1940.

Maximum discharge observed during period 1907-40; 9,750 second feet, June 28, 1927. Gage height 7.76 feet.

Maximum Discharge—Year 1939; 2,440 second feet, June 5, 1939. Gage height 3.20 feet.

Maximum Discharge—Year 1940; 2,100 second feet, May 15, 1940. Gage height 3.05 feet.

Accuracy—Records considered good except for period of ice effect from December 25, 1938, to March 9, 1939, and from November 21-27 and December 14, 1939, to March 11, 1940, which were computed on basis of 3 and 4 discharge measurements, gage heights and weather reports, and are fair.

Diversions for irrigation above station. Flow regulated by three reservoirs; total capacity, 117,600 acre-feet.

RIO GRANDE RIVER NEAR DEL NORTE, COLORADO

Location—Water stage recorder in Sec. 30, T. 40 N., R. 5 E., 6 miles west of Del Norte at State Bridge. From 1889 to September, 1907, station was maintained 4 miles below present station. Records are comparable.

Drainage Area—1,320 square miles. Zero of gage is 7,982.21 feet above mean sea level.

Records Available—October 11, 1889, to September 30, 1940.

Maximum discharge observed during period 1889-40; about 18,000 second feet (revised), October 5, 1911. Gage height 6.80 feet from rating curve extended above 6,000 second feet.

Maximum Discharge—Year 1939; 3,550 second feet, May 22, 1939. Gage height 3.56 feet.

Maximum Discharge—Year 1940; 2,810 second feet, May 15, 1940. Gage height 3.18 feet.

Accuracy—Records considered excellent except for period of ice effect from November 25, 1938, to December 5, and December 24 to March 24, 1939, and December 14, 1939, to March 15, 1940, which were computed on basis of 4 discharge measurements, weather and temperature records, and are good.

Diversions for irrigation above station. Flow regulated by three reservoirs above station; total capacity 117,600 acre-feet.

RIO GRANDE RIVER NEAR MONTE VISTA, COLORADO

Location—Water stage recorder in Sec. 19, T. 39 N., R. 8 E., N. M. P. M., where Gunbarrel highway crosses river two miles north of Monte Vista.

Drainage Area—1,740 square miles. Zero of gage is 7,654.54 feet above mean sea level.

Records Available—May 1, 1926, to September 30, 1940.

Maximum discharge observed during period 1926-40; 18,500 second feet, June 30, 1927. Gage height 7.85 feet.

Maximum Discharge—Year 1939; 1,330 second feet, May 20, 1939. Gage height 3.00 feet.

Maximum Discharge—Year 1940; 1,070 second feet, May 18, 1940. Gage height 2.74 feet.

Accuracy—Records considered good except those estimated during ice period November 25 to December 7, and December 18, 1938, to March 20, 1939, and those for ice effect period November 27; December 10, 16, 1939, to March 4, 1940, based on 2 and 5 discharge measurements, weather records, and comparison with records for station near Del Norte, and are fair.

Diversions for irrigation above station. Flow regulated by three main reservoirs; total capacity 117,600 acre-feet and several small reservoirs.

RIO GRANDE RIVER AT ALAMOSA, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 4, T. 37 N., R. 10 E., a quarter of a mile northwest of Alamosa. Prior to November 6, 1935, at site in Alamosa.

Drainage Area—1,840 square miles. Zero of gage is 7,533.66 feet above mean sea level.

Records Available—May 15, 1912, to September 30, 1940.

Maximum discharge observed during period 1912-40; 14,000 second feet, July 1, 1927. Gage height 8.37 feet.

Maximum Discharge—Year 1939; 932 second feet, March 24, 1939. Gage height 3.92 feet.

Maximum Discharge—Year 1940; 405 second feet, March 7, 1940. Gage height 2.35 feet.

Accuracy—Records considered good except for period of ice effect from December 5-8, 16, 1938, to March 15, 1939, and December 25, 1939, to March 6, 1940, computed on basis of 3 and 4 discharge measurements, gage heights and weather records, and are fair. Discharges estimated for period missing gage heights November 13, 24 to December 4, 1938, and October 10-16, 1939.

Diversions for irrigation above station.

RIO GRANDE RIVER ABOVE MOUTH OF TRINCHERA
CREEK NEAR LAS SAUSES, COLORADO

Location—Water stage recorder in Sec. 35, T. 36 N., R. 11 E., a quarter of a mile above mouth of Trinchera Creek and five miles north of Las Sauces.

Records Available—May, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 2,580 second feet, June 16, 1938. Gage height 7.02 feet.

Maximum Discharge—Year 1939; 1,210 second feet, March 25, 1939. Gage height 4.66 feet.

Maximum Discharge—Year 1940; 270 second feet, March 14, 1940. Gage height 2.31 feet.

Accuracy—Records good. Those for ice effect period January 16, 1939, to March 20, 1939, computed on basis of two discharge measurements and weather records and for ice period December 3-8, 13, 16, 1939, to March 13, 1940, computed on basis of 7 discharge measurements and weather records.

Diversions for irrigation above station.

RIO GRANDE RIVER NEAR LOBATOS, COLORADO

Location—Water stage recorder in Sec. 22, T. 33 N., R. 11 E., 6 miles north of Colorado-New Mexico line at highway bridge and 10 miles east of Lobatos.

Drainage Area—7,700 square miles (includes 2,940 square miles in closed basin). Zero of gage is 7,426.79 feet above mean sea level.

Records Available—June 28, 1899, to September 30, 1940.

Maximum discharge observed during period 1899-1940; 13,100 second feet, June 8, 1905.

Maximum Discharge—Year 1939; 1,640 second feet, March 24, 1939. Gage height 3.02 feet.

Maximum Discharge—Year 1940; 1,190 second feet, May 19, 1940. Gage height 2.59 feet.

Accuracy—Records considered excellent except for periods of ice effect November 24, 1938, to March 19, 1939, and November 20-22; December 13, 1939, to February 5, March 1-5, 1940, which were computed on basis of 3 and 4 discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

CLEAR CREEK BELOW CONTINENTAL RESERVOIR, COLORADO

(Formerly called North Clear Creek)

Location—Water stage recorder in Sec. 22, T. 42 N., R. 3 W., 1,000 feet below Continental Reservoir and 15 miles west of Creede, Colorado.

Drainage Area—49 square miles.

Records Available—May 1, 1929, to September 30, 1940.

Maximum discharge observed during period 1929-40; 313 second feet, May 4, 1937. Gage height 3.41 feet.

Maximum Discharge—Year 1939; 234 second feet, May 6 and 7, 1939. Gage height 2.80 feet.

Maximum Discharge—Year 1940; 143 second feet, May 9, 1940. Gage height 2.01 feet.

Accuracy—Records considered good except those for October 16 to November 4, 19, 1938, to April 17, 1939; and October 2-13, November 26, 1939, to April 22, 1940, and August 29, September 15-21, 1940, which were estimated and computed on basis of gate openings at Continental Reservoir above station, and are fair.

Flow regulated by Continental Reservoir above station; capacity 26,700 acre-feet.

GOOSE CREEK NEAR WAGON WHEEL GAP, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 26, T. 40 N., R. 1 E., 2 miles below Humphrey Reservoir and 7 miles above mouth at Wagon Wheel Gap.

Drainage Area—51 square miles.

Records Available—October 1, 1939, to September 30, 1940.

Maximum discharge observed during period 1939-40; 181 second feet, May 13, 1940. Gage height 1.84 feet.

Maximum Discharge—Year 1940; 181 second feet, May 13, 1940. Gage height 1.84 feet.

Accuracy—Records considered good except for period of missing gage heights from October 1-23; November 4-6, 1939; August 19-27; September 9-10, 1940, which were estimated and are fair. Discharges for period of ice effect, December 29, 1939, to February 14, 1940, computed on basis of 3 discharge measurements, observer's daily chain gage readings and comparison with record of South Fork at South Fork, and are fair.

No diversions for irrigation above station. Flow is not regulated, as Humphrey Reservoir is used for a fish pond and is not regulated.

SOUTH FORK RIO GRANDE RIVER AT SOUTH FORK, COLORADO

Location—Water stage recorder in Sec. 4, T. 39 N., R. 3 E., $1\frac{1}{4}$ miles above mouth and $1\frac{1}{2}$ miles southwest of South Fork. Records 1910-20 were obtained at a site one mile downstream and are comparable.

Drainage Area—216 square miles. Zero of gage is 8,221.79 feet above mean sea level.

Records Available—August, 1910, to December, 1920; May, 1936, to September 30, 1940.

Maximum discharge observed during period 1910-20, 1936-40; about 5,000 second feet, October 5, 1911.

Maximum Discharge—Year 1939; 972 second feet, June 4, 1939. Gage height 3.97 feet.

Maximum Discharge—Year 1940; 614 second feet, May 29, 1940. Gage height 3.31 feet.

Accuracy—Records considered good except those for period of missing gage heights, October 1-25; November 4-18, 1938, and March 24, 1939, and during ice period, November 24, 1938, to March 24, 1939, and from November 16, 1939, to March 22, 1940, which were estimated on basis of 5 and 6 discharge measurements and weather records, and are fair.

Diversions for irrigation and several small storage reservoirs above station.

PINOS CREEK NEAR DEL NORTE, COLORADO

Location—Water stage recorder in Sec. 29, T. 39 N., R. 5 E., just below mouth of Bennett Creek, and eight miles southwest of Del Norte.

Drainage Area—53 square miles.

Records Available—May, 1919, to September, 1924; May, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 720 second feet (determined by slope-area method) August 3, 1936. Gage height 4.19 feet. Max. daily discharge, 2,400 second feet, June 3, 1922.

Maximum Discharge—Year 1939; 115 second feet, May 17, 1939. Gage height 1.60 feet.

Maximum Discharge—Year 1940; 119 second feet, July 21, 1940. Gage height 1.63 feet.

Accuracy—Records considered excellent.

One small diversion for irrigation above station.

SAN FRANCISCO CREEK NEAR DEL NORTE, COLORADO

Location—Water stage recorder in Sec. 31, T. 39 N., R. 6 E., 1¼ miles below mouth of East Fork and 6 miles south of Del Norte.

Drainage Area—13.1 square miles.

Records Available—April, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 364 second feet (slope-area method), July 27, 1936. Gage height 1.47 feet.

Maximum Discharge—Year 1939; 30 second feet, May 10, 1939. Gage height 0.73 feet.

Maximum Discharge—Year 1940; 25 second feet, August 18, 1940. Gage height 0.68 feet.

Accuracy—Records considered good except those estimated for April 1-8, 1940, and May 16-19, 1940, which are fair.

Small diversions for irrigation above station.

ROCK CREEK NEAR MONTE VISTA, COLORADO

Location—Water stage recorder in Sec. 36, T. 38 N., R. 6 E., 3 miles below North Fork and 9 miles southwest of Monte Vista. April, 1919, to September, 1924, water stage recorder 1½ miles downstream.

Drainage Area—33.6 square miles.

Records Available—April, 1919, to September, 1924; May, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40; 154 second feet, August 11, 1935. Gage height 2.65 feet.

Maximum Discharge—Year 1939; 54 second feet, May 9, 1939. Gage height 1.37 feet.

Maximum Discharge—Year 1940; 31 second feet, May 3, 1940. Gage height 0.97 feet.

Accuracy—Records considered good except those estimated

October 25-31, 1938, and those for May 19-25; August 14-20; October 28-30; November 5-6, 1939; April 3-4, 10-12; May 9; August 18-20, 1940.

Diversions for irrigation above station.

ALAMOSA RIVER ABOVE TERRACE RESERVOIR, COLORADO

Location—Water stage recorder in Sec. 8, T. 36 N., R. 6 E., 3 miles above Terrace Reservoir Dam and 15 miles northwest of Capulin.

Drainage Area—107 square miles.

Records Available—September, 1911, to June, 1912; April, 1914, to October, 1919; October, 1923, to September, 1927; October, 1934, to September 30, 1940.

Maximum daily discharge observed during period 1911-12; 1914-19; 1923-27; 1934-40; 4,250 second feet, October 5, 1911.

Maximum Discharge—Year 1939; 698 second feet, May 19, 1939. Gage height 3.04 feet.

Maximum Discharge—Year 1940; 629 second feet May 15, 1940. Gage height 2.90 feet.

Accuracy—Records considered good except for estimated periods, September 5-6, 13-15, 21-22, 26-29, 1940.

No diversions above station.

ALAMOSA RIVER BELOW TERRACE RESERVOIR, COLORADO

Location—Water stage recorder in Sec. 23, T. 36 N., R. 6 E., in canon $\frac{1}{2}$ mile below Terrace Dam and 11 miles northwest of Capulin.

Drainage Area—116 square miles. Altitude, 8,400 feet above mean sea level.

Records Available—April 18, 1909, to November 30, 1912; April 1, 1915, to October 31, 1915; February 1, 1917, to October 31, 1920; April 1, 1922, to September 30, 1940.

Maximum daily discharge observed during period 1909-12, 1915, 1917-20, 1922-40; 1,450 second feet, June 16, 17, 18, 1917.

Maximum Discharge—Year 1939; 570 second feet, May 11, 1939. Gage height 3.65 feet.

Maximum Discharge—Year 1940; 406 second feet, May 17, 1940. Gage height 3.26 feet.

Accuracy—Records considered good. Winter flows estimated on basis of reservoir gate openings from November 25, 1938, to March 23, 1939, and from October 30, 1939, to March 17, 1940.

Diversions for storage above station. Flow regulated by Terrace Reservoir; capacity 17,700 acre-feet.

LA JARA CREEK AT GALLEGOS RANCH NEAR CAPULIN, COLORADO

Location—Water stage recorder in Sec. 34, T. 34 N., R. 7 E., 2 miles above old station called "La Jara Creek near Capulin, Colorado" (records not comparable), and 11 miles southwest of Capulin.

Drainage Area—79 square miles.

Records Available—May 1, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 653 second feet April 15, 1937. Gage height 5.94 feet.

Maximum Discharge—Year 1939; 133 feet, April 8, 1939. Gage height 3.04 feet.

Maximum Discharge—Year 1940; 50 feet, May 23, 1940. Gage height 2.29 feet.

Accuracy—Records considered good. No records November 4, 1938, to March 24, 1939, and from November 10, 1939, to March 25, 1940.

Diversion for storage and irrigation above station. Flow regulated by La Jara Reservoir; capacity 14,040 acre-feet.

TRINCHERA CREEK ABOVE TURNER RANCH NEAR FORT GARLAND, COLORADO

Location—Water stage recorder in Sec. 2, T. 31 S., R. 71 W., above Turner ranch and 7 miles southeast of Fort Garland. Station just below north and south forks.

Drainage Area—45 square miles.

Records Available—April 1, 1923, to September 30, 1940.

Maximum discharge observed during period 1923-40; 318 second feet, May 23, 1926. Gage height 2.54 feet.

Maximum Discharge—Year 1939; 90 second feet, July 30, 1939. Gage height 1.38 feet.

Maximum Discharge—Year 1940; 119 second feet, May 17, 1940. Gage height 1.55 feet.

Accuracy—Records considered excellent.

No diversions above station.

TRINCHERA CREEK ABOVE MOUNTAIN HOME RESER- VOIR, NEAR FORT GARLAND, COLORADO

Location—Water stage recorder in Sec. 31, T. 30 S., R. 71 W., 1,500 feet above Mountain Home Reservoir, and 5 miles southeast of Fort Garland. Station moved 500 feet upstream in 1939, above any backwater effect from high water in reservoir. Records comparable.

Drainage Area—61 square miles.

Records Available—May 1, 1923, to September 30, 1940.

Maximum discharge observed during period 1923-40; 385 second feet, May 24, 1926. Gage height 1.84 feet.

Maximum Discharge—Year 1939; 190 second feet, July 30, 1939. Gage height 1.58 feet.

Maximum Discharge—Year 1940; 56 second feet, June 3, 1940. Gage height 0.68 feet.

Accuracy—Records considered excellent.

Diversions for irrigation above station.

TRINCHERA CREEK BELOW SMITH RESERVOIR NEAR BLANCA, COLORADO

Location—Water stage recorder in Sec. 5, T. 31 S., R. 73 W., 1 mile below Smith Reservoir and 5 miles southwest of Blanca, and 500 feet west of bridge on Blanca-San Acacia highway.

Drainage Area—396 square miles.

Records Available—October 1, 1929, to September 30, 1940.

Maximum discharge observed during period 1924-40; 584 second feet, April 18, 1937. Gage height 5.20 feet.

Maximum Discharge—Year 1939; 178 second feet, April 5, 1939. Gage height 2.95 feet.

Maximum Discharge—Year 1940; 34 second feet, April 30, 1940. Gage height 1.26 feet.

Accuracy—Records considered good. No records November 3, 1938, to March 16, 1939, and from November 1, 1939, to March 30, 1940.

Diversions for irrigation and storage above station. Flow regulated by Smith Reservoir; capacity 5,335 acre-feet.

SANGRE DE CRISTO CREEK NEAR FORT GARLAND, COLORADO

Location—Water stage recorder in Sec. 23, T. 30 S., R. 72 W., 1½ miles east of Fort Garland on Turner ranch road.

Drainage Area—187 square miles.

Records Available—March 15 to October 9, 1916; May 1, 1923, to September 30, 1940.

Maximum discharge observed during period 1916, 1923-40; 1,520 second feet (slope-area method), August 31, 1936. Gage height 6.10 feet.

Maximum Discharge—Year 1939; 185 second feet, May 3, 1939. Gage height 3.04 feet.

Maximum Discharge—Year 1940; 79 second feet, April 22, 1940. Gage height 2.18 feet.

Accuracy—Records considered good except those for periods of ice effect and missing gage heights, October 1-4, 1938; April 26-28, 1939, and October 8-31, 1939, which were estimated and

are fair. No records November 3, 1938, to March 28, 1939, and from November 1, 1939, to March 31, 1940.

Diversions for irrigation above station.

UTE CREEK AT FORKS NEAR FORT GARLAND

Location—Water stage recorder in Sec. 13, T. 29 S., R. 72 W., $\frac{1}{2}$ mile below the Forks, 9 miles northeast of Fort Garland. Re-established October 7, 1939, 20 feet upstream from site used during 1936.

Drainage Area—23.3 square miles.

Records Available—May 4 to July 27, 1936, October 1, 1939, to September 30, 1940.

Maximum discharge observed during period 1936-1940; 554 second feet (slope-area measurement), July 27, 1936. Gage height 3.04 feet.

Maximum Discharge—Year 1940; 103 second feet, May 31, 1940. Gage height 1.40 feet.

Accuracy—Records considered good, except for those estimated for October 1-7, 30, 31, 1939.

No diversions above station.

UTE CREEK NEAR FORT GARLAND, COLORADO

Location—Water stage recorder in Sec. 10, T. 30 S., R. 72 W., at flume $2\frac{1}{2}$ miles north of Fort Garland.

Drainage Area—32 square miles.

Records Available—March 16 to October 8, 1916; May 1, 1923, to September 30, 1940.

Maximum discharge observed during period 1916, 1923-40; 353 second feet, August 5, 1936. Gage height 3.05 feet.

Maximum Discharge—Year 1939; 94 second feet, May 3, 1939. Gage height 1.64 feet.

Maximum Discharge—Year 1940; 78 second feet, May 17, 1940. Gage height 1.46 feet.

Accuracy—Records considered excellent.

Diversions for irrigation above station.

CONEJOS RIVER AT PLATORO, COLORADO

Location—Water stage recorder in Sec. 22, T. 36 N., R. 4 E., $\frac{1}{2}$ mile below Platoro.

Drainage Area—44.4 square miles.

Records Available—April 1, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 1,230 second feet, May 28, 1938. Gage height 3.17 feet.

Maximum Discharge—Year 1939; 855 second feet, May 19, 1939. Gage height 2.65 feet.

Maximum Discharge—Year 1940; 836 second feet, May 31, 1940. Gage height 2.56 feet.

Accuracy—Records considered excellent, except for ice effect period, and for missing gage heights, October 13-18; November 13-31, 1938; April 1-11; November 16-25, 30, to December 3, 1939; and April 1-4, 1940, which were computed on basis of discharge measurements and comparison with Conejos at Mogote.

No diversions above station.

CONEJOS RIVER NEAR MOGOTE, COLORADO

Location—Water stage recorder in Sec. 34, T. 33 N., R. 7. E., 12 miles west of Antonito at Broyles bridge and $5\frac{1}{2}$ miles north-west of Mogote.

Drainage Area—282 square miles. Altitude, 8,300 feet above mean sea level.

Records Available—September 1, 1899, to March 31, 1900, and April 17, 1903, to October 31, 1905, at a point 1 mile below present station. March 21, 1907, to October 5, 1911, 3 miles above present station; January 1, 1912, to September 30, 1940, at present station.

Maximum discharge observed during period 1899-1900; 1903-40; 6,000 second feet (estimated), October 5, 1911.

Maximum Discharge—Year 1939; 1,680 second feet, May 20, 1939. Gage height 3.74 feet.

Maximum Discharge—Year 1940; 1,650 second feet, May 17, 1940. Gage height 3.72 feet.

Accuracy—Records considered excellent except for those estimated and for ice periods, October 13-22; November 25; December 19-21, 24, 1938, to March 16, 27; to April 13, 1939, computed on basis of 5 discharge measurements and weather records, and those from December 15, 1939, to March 17, 1940, computed on basis of 7 discharge measurements and weather records and are good.

No diversions or regulations above station.

CONEJOS RIVER NEAR LAS SAUSES, COLORADO

Location—Two water stage recorders in Sec. 2, T. 35 N., R. 11 E., 2 miles north of Las Sauses and $\frac{1}{2}$ mile above mouth. Stream enters Rio Grande River through two channels and combined record is published.

Drainage Area—887 square miles. North channel zero of gage is 7,496.02 feet above mean sea level.

Records Available—March 29, 1921, to September 30, 1940.

Maximum daily discharge observed during period 1921-40; 3,650 second feet, May 24, 1932.

Maximum Discharge—Year 1939; 1,120 second feet, May 2, 1939.

Maximum Discharge—Year 1940; 1,106 second feet, May 18, 1940.

Accuracy—Records considered good for 1939, except those for ice effect periods, January 15-18, 28-30; February 2-9, 12-15; March 4-8; and June 17 to July 26, 1939, by comparison of records of two channels, which are fair. Records are excellent for 1940, except those for ice effect, January 14-17, 19-20, 23-24, 1940, which were computed on basis of measurements and comparison of records for two channels.

SAN ANTONIO RIVER AT ORTIZ, COLORADO

Location—Water stage recorder in Sec. 19, T. 32 N., R. 9 E., $\frac{1}{2}$ mile south of Ortiz just across state line and $\frac{1}{2}$ mile above mouth of Los Pinos Creek.

Drainage Area—110 square miles.

Records Available—January 1 to October 31, 1915; May 1, 1919, to October 31, 1920; October 1, 1924, to September 30, 1940.

Maximum discharge observed during period 1915; 1919-20; 1924-40; 1,750 second feet, April 15, 1937. Gage height 5.38 feet.

Maximum Discharge—Year 1939; 324 second feet, April 30, 1939. Gage height 2.48 feet.

Maximum Discharge—Year 1940; 218 second feet, April 21, 1940. Gage height 2.13 feet.

Accuracy—Records considered good, except those estimated, November 10-30, 1939; May 6-8, 17-22, 1940, which are fair. No records November 4, 1938, to March 23, 1939, and December 1, 1939, to March 28, 1940.

Small diversions for irrigation above station.

SAN ANTONIO RIVER AT MOUTH NEAR MANASSA, COLORADO

Location—Water stage recorder in Sec. 21, T. 34 N., R. 10 E., $2\frac{1}{2}$ miles east of Manassa and 1 mile above mouth near highway crossing. Prior to April 23, 1936, at site 200 feet upstream at bridge.

Drainage Area—348 square miles.

Records Available—April 1, 1923, to September 30, 1940.

Maximum discharge observed during period 1923-40; 1,890 second feet, May 5, 1924.

Maximum Discharge—Year 1939; 1,040 second feet, May 1, 1939. Gage height 4.90 feet.

Maximum Discharge—Year 1940; 495 second feet, May 18, 1940. Gage height, 3.49 feet.

Accuracy—Records considered excellent above 5 second feet, except those for ice effect period and period of missing gage heights, December 3-4, 24, 1938, to March 24, 1939; November 22, 1939, to March 14, 1940, which were computed on basis of 5 discharge measurements in 1939 and 6 in 1940, and weather records, and are fair.

Diversions for irrigation above station.

LOS PINOS RIVER NEAR ORTIZ, COLORADO

Location—Water stage recorder in Sec. 34, T. 32 N., R. 8 E., 2 miles southwest of Ortiz and 1 mile south state line.

Drainage Area—167 square miles. Altitude, 8,100 feet above mean sea level.

Records Available—January 1, 1914, to November 30, 1920; October 1, 1924, to September 30, 1940.

Maximum discharge observed during period 1914-20; 1924-40; 2,770 second feet, May 9, 1937. Gage height 5.30 feet.

Maximum Discharge—Year 1939; 1,360 second feet, April 30, 1939. Gage height 4.05 feet.

Maximum Discharge—Year 1940; 887 second feet, April 26, 1940. Gage height 3.40 feet.

Accuracy—Records considered good.

Diversions for irrigation above station.

CULEBRA RIVER AT SAN LUIS, COLORADO

Location—Water stage recorder in Sec. 35, T. 3 N., R. 72 W. (Beaubien Grant Survey), 1 mile southeast of San Luis. Twelve foot Parshall flume since May 1, 1931.

Drainage Area—220 square miles.

Records Available—May 1, 1909, to September 2, 1919; April 1, 1927, to September 30, 1940.

Maximum daily discharge observed during period 1909-19; 1927-40; 470 second feet, June 26, 1915.

Maximum Discharge—Year 1939; 296 second feet, July 13, 1939. Gage height 3.18 feet.

Maximum Discharge—Year 1940; 310 second feet, June 8, 1940. Gage height 3.30 feet.

Accuracy—Records considered excellent except those estimated for February 1-26, and December 19-31, 1939.

Diversions for irrigation and storage above station. Flow regulated by Sanchez Reservoir; capacity 103,100 acre-feet.

CULEBRA RIVER BELOW SAN LUIS, COLORADO

Location—Water stage recorder in Sec. 27, T. 3 N., R. 72 W. (Beaubien Grant Survey), 500 feet below bridge on state highway No. 159, 600 feet below mouth of Rito Seco, and $\frac{1}{4}$ mile from San Luis.

Drainage Area—255 square miles.

Records Available—October 1, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 512 second feet, July 15, 1939. Gage height 3.29 feet.

Maximum Discharge—Year 1939; 512 second feet, July 15, 1939. Gage height 3.29 feet.

Maximum Discharge—Year 1940; 380 second feet, June 8, 1940. Gage height 2.90 feet.

Accuracy—Records considered good, except for periods of missing gage heights, October 1, 16, to November 27, 1939, which were computed on basis of 2 discharge measurements and comparison with record of Culebra River above San Luis, and are good.

Diversions for storage and irrigation above station.

LA GARITA CREEK NEAR LA GARITA, COLORADO

Location—Water stage recorder in Sec. 10, T. 41 N., R. 6 E., at Curby ranch, 4 miles southwest of La Garita post office. Gage moved $\frac{1}{4}$ mile upstream November 14, 1935, and set to independent datum. Records comparable for both sides.

Drainage Area—61 square miles.

Records Available—April 1, 1919, to September 30, 1940.

Maximum discharge observed during period 1919-40; 395 second feet, July 14, 1938. Gage height 2.07 feet.

Maximum Discharge—Year 1939; 126 second feet, April 22, 1939. Gage height 1.35 feet.

Maximum Discharge—Year 1940; 68 second feet, July 21, 1940. Gage height 1.46 feet.

Accuracy—Records considered good except for those estimated October 5-31, 1938, and August 27-28, 31; September 1, 1940, computed on basis of 1 discharge measurement, weather records, and are fair. No records during winter.

Diversions for irrigation above station.

CARNERO CREEK NEAR LA GARITA, COLORADO

Location—Water stage recorder in Sec. 26, T. 42 N., R. 6 E., 3 miles northwest of La Garita at O'Dell ranch.

Drainage Area—117 square miles.

Records Available—April 1, 1919, to September 30, 1940.

Maximum discharge observed during period 1919-40; 500 second feet, April 14, 1924.

Maximum Discharge—Year 1939; 102 second feet, April 3, 1939. Gage height 1.17 feet.

Maximum Discharge—Year 1940; 31 second feet, March 28, 1940. Gage height 0.72 feet.

Accuracy—Records considered good except for records estimated, October 12-31, 1938; July 7-12, 17-21, 25-27; August 2-6, 10-19, 1940, which are fair. No records during winter.

Diversions for irrigation above station.

SAGUACHE CREEK NEAR SAGUACHE, COLORADO

Location—Water stage recorder in Sec. 11, T. 45 N., R. 6 E., at Ward's ranch, 10 miles west of Saguache.

Drainage Area—595 square miles.

Records Available—August 7, 1910, to September 23, 1912; June 1, 1914, to September 30, 1940.

Maximum discharge observed during period 1910-12, 1914-40; 746 second feet, June 15, 1921. Gage height 3.45 feet, former datum.

Maximum Discharge—Year 1939; 269 second feet, April 4, 1939. Gage height 1.55 feet.

Maximum Discharge—Year 1940; 134 second feet, May 18, 1940. Gage height 1.03 feet.

Accuracy—Records considered good except for those estimated for September 5-12, 1939; June 10-15, 24, 25; August 16, 17; September 23-24, 1940, which are fair. No records during winter.

Diversions for irrigation above station.

KERBER CREEK AT ASHLEY RANCH NEAR VILLA GROVE, COLORADO

Location—Water stage recorder in Sec. 7, T. 46 N., R. 8 E., at Ashley ranch, 10 miles west of Villa Grove.

Drainage Area—38 square miles.

Records Available—June, 1923, to September, 1926; May, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 306 second feet (slope-area method), July 30, 1936.

Maximum Discharge—Year 1939; 90 second feet, May 14, 1939. Gage height 2.80 feet.

Maximum Discharge—Year 1940; 49 second feet, August 22, 1940. Gage height 2.51 feet.

Accuracy—Records considered good, except those for October 28-30, 1939; April 1-4; June 3-5, which were estimated and are good.

No diversions above station.

NORTH CRESTONE CREEK NEAR CRESTONE,
COLORADO

Location—Water stage recorder in Sec. 5, T. 43 N., R. 12 E., 3 miles above Junction with South Crestone Creek, and 1½ miles above Crestone.

Drainage Area—10.7 square miles.

Records Available—1915; May, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 735 second feet by slope-area determination, August 6, 1936. Gage height, 4.33 feet.

Maximum Discharge—Year 1939; 78 second feet, May 19, 1939. Gage height 1.60 feet.

Maximum Discharge—Year 1940; 63 second feet, May 31, 1940. Gage height .45 feet.

Accuracy—Records considered good.

No diversions above station.

**Discharge of Rio Grande River at Thirty Mile Bridge Near Creede, Colo., for Year Ending
Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1..... | 107 | 14 | ..... | ..... | ..... | ..... | 19 | 385 | 1100 | 567 | 109 | 57 |
| 2..... | 107 | 14 | ..... | ..... | ..... | ..... | 19 | 430 | 1050 | 594 | 103 | 52 |
| 3..... | 106 | ..... | ..... | ..... | ..... | ..... | 19 | 450 | 1010 | 600 | 95 | 45 |
| 4..... | 118 | ..... | ..... | ..... | ..... | ..... | 19 | 488 | 1080 | 634 | 89 | 42 |
| 5..... | 125 | ..... | ..... | ..... | ..... | ..... | 19 | 548 | 1130 | 641 | 90 | 50 |
| 6..... | 155 | ..... | ..... | ..... | ..... | ..... | 19 | 676 | 1100 | 628 | 104 | 123 |
| 7..... | 215 | ..... | ..... | ..... | ..... | ..... | 19 | 718 | 1080 | 621 | 135 | 111 |
| 8..... | 52 | ..... | ..... | ..... | ..... | ..... | 19 | 607 | 1040 | 587 | 98 | 167 |
| 9..... | 7.8 | ..... | ..... | ..... | ..... | ..... | 19 | 554 | 978 | 548 | 85 | 135 |
| 10..... | 7.8 | ..... | ..... | ..... | ..... | ..... | 19 | 607 | 918 | 542 | 80 | 120 |
| 11..... | 7.2 | ..... | ..... | ..... | ..... | ..... | 19 | 776 | 918 | 542 | 78 | 177 |
| 12..... | 7.5 | ..... | ..... | ..... | ..... | ..... | 19 | 845 | 927 | 516 | 71 | 177 |
| 13..... | 7.5 | ..... | ..... | ..... | ..... | ..... | 19 | 725 | 927 | 516 | 66 | 185 |
| 14..... | 7.5 | ..... | ..... | ..... | ..... | ..... | 19 | 587 | 1040 | 516 | 65 | 160 |
| 15..... | 7.8 | ..... | ..... | ..... | ..... | ..... | 19 | 548 | 1030 | 548 | 62 | 142 |
| 16..... | 8.7 | ..... | ..... | ..... | ..... | ..... | 19 | 522 | 952 | 529 | 60 | 123 |
| 17..... | 9.0 | ..... | ..... | ..... | ..... | ..... | 19 | 600 | 918 | 554 | 54 | 118 |
| 18..... | 9.0 | ..... | ..... | ..... | ..... | ..... | 42 | 648 | 860 | 587 | 54 | 109 |
| 19..... | 9.8 | ..... | ..... | ..... | ..... | ..... | 150 | 725 | 776 | 600 | 51 | 104 |
| 20..... | 9.4 | ..... | ..... | ..... | ..... | ..... | 185 | 885 | 704 | 607 | 48 | 106 |
| 21..... | 10 | ..... | ..... | ..... | ..... | ..... | 232 | 978 | 621 | 567 | 51 | 98 |
| 22..... | 10 | ..... | ..... | ..... | ..... | ..... | 167 | 1020 | 567 | 385 | 54 | 96 |
| 23..... | 11 | ..... | ..... | ..... | ..... | ..... | 229 | 1040 | 574 | 101 | 49 | 92 |
| 24..... | 11 | ..... | ..... | ..... | ..... | ..... | 332 | 978 | 574 | 89 | 61 | 87 |
| 25..... | 12 | ..... | ..... | ..... | ..... | ..... | 381 | 821 | 607 | 89 | 70 | 86 |
| 26..... | 13 | ..... | ..... | ..... | ..... | ..... | 393 | 761 | 628 | 92 | 65 | 92 |
| 27..... | 13 | ..... | ..... | ..... | ..... | ..... | 393 | 798 | 587 | 138 | 60 | 107 |
| 28..... | 13 | ..... | ..... | ..... | ..... | ..... | 393 | 893 | 548 | 140 | 74 | 90 |
| 29..... | 13 | ..... | ..... | ..... | ..... | ..... | 336 | 1010 | 529 | 162 | 83 | 85 |
| 30..... | 13 | ..... | ..... | ..... | ..... | ..... | 360 | 1120 | 548 | 135 | 76 | 79 |
| 31..... | 14 | ..... | ..... | ..... | ..... | ..... | ..... | 1100 | ..... | 122 | 63 | ..... |
| Total | 1217.0 | 420 | 465 | 496 | 476 | 558 | 3916 | 22843 | 25321 | 13497 | 2303 | 3215 |
| Mean... | 39.3 | 14 | 15 | 16 | 17 | 18 | 131 | 737 | 844 | 435 | 74.3 | 107 |
| Max... | 215 | ..... | ..... | ..... | ..... | ..... | 393 | 1120 | 1130 | 641 | 135 | 185 |
| Min... | 7.2 | ..... | ..... | ..... | ..... | ..... | 19 | 385 | 529 | 89 | 48 | 42 |
| Acre-ft. | 2410 | 833 | 922 | 984 | 944 | 1110 | 7770 | 45310 | 50220 | 26770 | 4570 | 6380 |

Total run-off for water year 1938-39=148,220 acre-feet.

**Discharge of Rio Grande River at Thirty Mile Bridge, Near Creede, Colorado, for Year Ending
Sept. 30, 1940.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|-------|-------|-------|------|-------|-------|-------|------|------|-------|
| 1..... | 78 | 54 | 3 | 3 | 3 | 3 | 58 | 151 | 577 | 128 | 47 | 40 |
| 2..... | 74 | 53 | 3 | 3 | 3 | 3 | 58 | 146 | 557 | 111 | 47 | 36 |
| 3..... | 70 | 50 | 3 | 3 | 3 | 3 | 58 | 232 | 532 | 100 | 52 | 40 |
| 4..... | 66 | 48 | 3 | 3 | 3 | 3 | 58 | 356 | 458 | 94 | 41 | 38 |
| 5..... | 60 | 51 | 3 | 3 | 3 | 3 | 58 | 453 | 406 | 91 | 38 | 35 |
| 6..... | 62 | 53 | 3 | 3 | 3 | 3 | 58 | 490 | 376 | 86 | 43 | 33 |
| 7..... | 61 | 36 | 3 | 3 | 3 | 3 | 57 | 570 | 348 | 81 | 43 | 34 |
| 8..... | 70 | 37 | 3 | 3 | 3 | 3 | 57 | 624 | 325 | 81 | 37 | 34 |
| 9..... | 65 | 38 | 3 | 3 | 3 | 3 | 57 | 638 | 285 | 78 | 34 | 34 |
| 10..... | 54 | 32 | 3 | 3 | 3 | 3 | 57 | 787 | 261 | 74 | 33 | 32 |
| 11..... | 61 | 34 | 3 | 3 | 3 | 3 | 57 | 869 | 248 | 73 | 32 | 30 |
| 12..... | 61 | 38 | 3 | 3 | 3 | 3 | 57 | 1030 | 258 | 66 | 32 | 30 |
| 13..... | 60 | 42 | 3 | 3 | 3 | 3 | 58 | 1060 | 261 | 66 | 31 | 32 |
| 14..... | 57 | 32 | 3 | 3 | 3 | 3 | 58 | 1130 | 264 | 74 | 29 | 30 |
| 15..... | 56 | 34 | 3 | 3 | 3 | 3 | 75 | 1170 | 261 | 67 | 29 | 29 |
| 16..... | 53 | 43 | 3 | 3 | 3 | 3 | 102 | 1200 | 229 | 63 | 32 | 28 |
| 17..... | 53 | 48 | 3 | 3 | 3 | 3 | 111 | 1310 | 242 | 66 | 32 | 33 |
| 18..... | 49 | 28 | 3 | 3 | 3 | 3 | 111 | 1140 | 216 | 64 | 34 | 174 |
| 19..... | 51 | 3 | 3 | 3 | 3 | 3 | 111 | 570 | 202 | 59 | 43 | 274 |
| 20..... | 46 | 3 | 3 | 3 | 3 | 3 | 121 | 410 | 190 | 57 | 52 | 185 |
| 21..... | 43 | 3 | 3 | 3 | 3 | 14 | 220 | 372 | 196 | 62 | 43 | 130 |
| 22..... | 46 | 3 | 3 | 3 | 3 | 14 | 364 | 356 | 196 | 57 | 41 | 154 |
| 23..... | 43 | 3 | 3 | 3 | 3 | 14 | 401 | 401 | 177 | 59 | 41 | 128 |
| 24..... | 42 | 3 | 3 | 3 | 3 | 14 | 428 | 468 | 161 | 58 | 51 | 114 |
| 25..... | 48 | 3 | 3 | 3 | 3 | 14 | 437 | 538 | 146 | 64 | 57 | 111 |
| 26..... | 44 | 3 | 3 | 3 | 3 | 27 | 437 | 544 | 142 | 67 | 55 | 112 |
| 27..... | 32 | 3 | 3 | 3 | 3 | 52 | 432 | 557 | 130 | 64 | 48 | 109 |
| 28..... | 46 | 3 | 3 | 3 | 3 | 62 | 376 | 564 | 123 | 62 | 41 | 109 |
| 29..... | 45 | 3 | 3 | 3 | 3 | 62 | 236 | 557 | 118 | 63 | 39 | 172 |
| 30..... | 57 | 3 | 3 | 3 | ..... | 60 | 177 | 551 | 164 | 55 | 36 | 216 |
| 31..... | 52 | 3 | 3 | 3 | ..... | 59 | ..... | 564 | ..... | 57 | 38 | ..... |
| Total | 1705 | 787 | 93 | 93 | 87 | 452 | 4945 | 19808 | 8049 | 2247 | 1251 | 2556 |
| Mean... | 55.0 | 26.2 | 3 | 3 | 3 | 14.6 | 165 | 639 | 268 | 72.5 | 40.4 | 85.2 |
| Max... | 78 | 54 | ..... | ..... | ..... | 62 | 437 | 1310 | 577 | 128 | 57 | 274 |
| Min... | 32 | 3 | ..... | ..... | ..... | 3 | 57 | 146 | 118 | 55 | 29 | 28 |
| Acre-ft. | 3380 | 1560 | 184 | 184 | 173 | 897 | 9810 | 39290 | 15960 | 4460 | 2480 | 5070 |

Total run-off for water year 1939-40=83,450 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande River at Wason Below Creede, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| 1..... | 309 | 270 | 189 | 120 | 115 | 120 | 236 | 1120 | 2110 | 1050 | 386 | 248 |
| 2..... | 304 | 270 | 189 | 120 | 115 | 120 | 257 | 1080 | 1990 | 1060 | 369 | 236 |
| 3..... | 340 | 244 | 175 | 120 | 115 | 120 | 275 | 1020 | 1970 | 1040 | 335 | 217 |
| 4..... | 340 | 248 | 179 | 120 | 115 | 120 | 270 | 1130 | 2170 | 1040 | 293 | 199 |
| 5..... | 369 | 266 | 175 | 120 | 115 | 120 | 244 | 1420 | 2220 | 1030 | 288 | 189 |
| 6..... | 500 | 221 | 169 | 120 | 115 | 120 | 253 | 1520 | 2040 | 978 | 324 | 236 |
| 7..... | 738 | 155 | 182 | 120 | 115 | 120 | 214 | 1580 | 1870 | 961 | 423 | 352 |
| 8..... | 818 | 210 | 179 | 120 | 115 | 125 | 229 | 1560 | 1870 | 987 | 346 | 369 |
| 9..... | 486 | 279 | 172 | 120 | 115 | 125 | 262 | 1520 | 1840 | 1020 | 309 | 435 |
| 10..... | 417 | 248 | 179 | 120 | 115 | 126 | 236 | 1630 | 1770 | 1010 | 279 | 369 |
| 11..... | 386 | 253 | 166 | 115 | 115 | 114 | 199 | 1580 | 1730 | 1020 | 266 | 441 |
| 12..... | 352 | 217 | 169 | 115 | 115 | 134 | 221 | 1800 | 1680 | 1060 | 236 | 493 |
| 13..... | 352 | 166 | 155 | 115 | 115 | 131 | 233 | 1720 | 1730 | 1130 | 225 | 568 |
| 14..... | 363 | 206 | 134 | 115 | 115 | 131 | 244 | 1460 | 1730 | 1160 | 217 | 603 |
| 15..... | 404 | 210 | 155 | 115 | 115 | 139 | 217 | 1360 | 1800 | 1120 | 210 | 582 |
| 16..... | 526 | 225 | 166 | 115 | 118 | 150 | 196 | 1350 | 1630 | 1040 | 210 | 500 |
| 17..... | 582 | 229 | 158 | 115 | 118 | 158 | 166 | 1300 | 1540 | 996 | 206 | 448 |
| 18..... | 526 | 179 | 144 | 115 | 118 | 164 | 182 | 1430 | 1470 | 978 | 203 | 417 |
| 19..... | 486 | 225 | 169 | 115 | 118 | 186 | 304 | 1690 | 1340 | 943 | 210 | 392 |
| 20..... | 454 | 210 | 158 | 115 | 118 | 229 | 493 | 2000 | 1260 | 908 | 210 | 381 |
| 21..... | 429 | 199 | 152 | 115 | 118 | 304 | 582 | 2100 | 1220 | 859 | 214 | 357 |
| 22..... | 404 | 186 | 136 | 115 | 118 | 346 | 678 | 2250 | 1150 | 786 | 229 | 335 |
| 23..... | 381 | 147 | 144 | 115 | 118 | 352 | 526 | 2170 | 1150 | 423 | 217 | 319 |
| 24..... | 357 | 152 | 121 | 115 | 118 | 386 | 746 | 1970 | 1150 | 319 | 221 | 298 |
| 25..... | 330 | 203 | 125 | 115 | 118 | 375 | 810 | 1700 | 1130 | 304 | 233 | 284 |
| 26..... | 319 | 186 | 140 | 115 | 120 | 314 | 851 | 1500 | 1090 | 275 | 233 | 288 |
| 27..... | 309 | 199 | 135 | 115 | 120 | 266 | 859 | 1580 | 1050 | 314 | 217 | 335 |
| 28..... | 298 | 186 | 135 | 115 | 120 | 221 | 1010 | 1670 | 1030 | 381 | 253 | 309 |
| 29..... | 279 | 175 | 134 | 115 | .... | 199 | 1070 | 1860 | 1010 | 473 | 298 | 284 |
| 30..... | 275 | 206 | 135 | 115 | .... | 192 | 892 | 2040 | 1030 | 417 | 293 | 275 |
| 31..... | 270 | .... | 140 | 115 | .... | 206 | .... | 2100 | .... | 404 | 266 | .... |
| Total | 12703 | 6370 | 4859 | 3615 | 3265 | 5913 | 12955 | 50210 | 46710 | 25486 | 8219 | 10759 |
| Mean. | 410 | 212 | 157 | 117 | 117 | 191 | 432 | 1620 | 1557 | 822 | 265 | 359 |
| Max. | 818 | 279 | 189 | .... | .... | 386 | 1070 | 2250 | 2220 | 1160 | 423 | 603 |
| Min. | 270 | 147 | 121 | .... | .... | 114 | 166 | 1020 | 1010 | 275 | 203 | 189 |
| Acre-ft. | 25200 | 12630 | 9640 | 7170 | 6480 | 11730 | 25700 | 99590 | 92650 | 50550 | 16300 | 21340 |

Total run-off for water year 1938-39=379,000 acre-feet.

Discharge of Rio Grande River at Wason, Below Creede, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|------|------|------|------|------|-------|-------|-------|-------|------|-------|
| 1..... | 262 | 210 | 89 | 72 | 76 | 70 | 203 | 357 | 1090 | 352 | 172 | 155 |
| 2..... | 218 | 203 | 83 | 72 | 78 | 73 | 179 | 369 | 1060 | 279 | 164 | 152 |
| 3..... | 240 | 196 | 77 | 72 | 80 | 73 | 169 | 540 | 1010 | 253 | 161 | 166 |
| 4..... | 229 | 189 | 85 | 68 | 78 | 72 | 169 | 900 | 926 | 233 | 155 | 166 |
| 5..... | 221 | 186 | 83 | 64 | 76 | 80 | 182 | 1070 | 851 | 229 | 147 | 150 |
| 6..... | 214 | 186 | 77 | 60 | 78 | 75 | 172 | 1120 | 786 | 233 | 155 | 139 |
| 7..... | 210 | 169 | 87 | 64 | 76 | 77 | 169 | 1200 | 716 | 214 | 166 | 136 |
| 8..... | 225 | 161 | 78 | 70 | 76 | 86 | 169 | 1240 | 663 | 214 | 152 | 134 |
| 9..... | 233 | 179 | 82 | 72 | 77 | 84 | 166 | 1230 | 603 | 210 | 141 | 131 |
| 10..... | 217 | 161 | 87 | 72 | 78 | 82 | 169 | 1470 | 568 | 199 | 139 | 134 |
| 11..... | 214 | 150 | 80 | 72 | 75 | 80 | 161 | 1610 | 519 | 192 | 141 | 134 |
| 12..... | 214 | 158 | 80 | 72 | 75 | 85 | 166 | 1620 | 526 | 186 | 136 | 128 |
| 13..... | 214 | 158 | 71 | 78 | 65 | 82 | 186 | 1630 | 547 | 179 | 128 | 128 |
| 14..... | 210 | 152 | 75 | 70 | 65 | 87 | 225 | 1790 | 596 | 236 | 123 | 126 |
| 15..... | 199 | 136 | 75 | 71 | 72 | 91 | 248 | 1860 | 582 | 244 | 121 | 128 |
| 16..... | 196 | 128 | 75 | 73 | 78 | 92 | 248 | 1800 | 575 | 233 | 126 | 123 |
| 17..... | 192 | 126 | 72 | 72 | 82 | 100 | 253 | 1820 | 568 | 221 | 126 | 123 |
| 18..... | 189 | 123 | 72 | 70 | 79 | 100 | 253 | 1700 | 526 | 203 | 123 | 253 |
| 19..... | 186 | 114 | 72 | 70 | 69 | 105 | 293 | 1180 | 467 | 192 | 147 | 670 |
| 20..... | 175 | 105 | 68 | 68 | 75 | 114 | 363 | 926 | 460 | 182 | 175 | 526 |
| 21..... | 166 | 114 | 60 | 68 | 72 | 128 | 480 | 842 | 429 | 192 | 179 | 381 |
| 22..... | 166 | 98 | 68 | 72 | 65 | 164 | 596 | 810 | 429 | 186 | 172 | 352 |
| 23..... | 164 | 95 | 68 | 80 | 62 | 186 | 754 | 883 | 404 | 186 | 166 | 363 |
| 24..... | 164 | 95 | 68 | 82 | 66 | 192 | 802 | 978 | 363 | 179 | 179 | 314 |
| 25..... | 164 | 96 | 68 | 84 | 69 | 203 | 851 | 996 | 340 | 186 | 206 | 284 |
| 26..... | 196 | 98 | 62 | 86 | 60 | 199 | 826 | 1060 | 304 | 192 | 203 | 279 |
| 27..... | 152 | 96 | 65 | 84 | 69 | 210 | 851 | 1090 | 293 | 214 | 186 | 270 |
| 28..... | 152 | 92 | 72 | 80 | 68 | 199 | 693 | 1100 | 270 | 221 | 166 | 253 |
| 29..... | 179 | 89 | 70 | 78 | 69 | 186 | 561 | 1090 | 270 | 210 | 161 | 335 |
| 30..... | 169 | 85 | 61 | 80 | .... | 182 | 410 | 1070 | 335 | 199 | 155 | 493 |
| 31..... | 210 | .... | 60 | 76 | .... | 199 | .... | 1090 | .... | 182 | 152 | .... |
| Total | 6170 | 4148 | 2290 | 2272 | 2108 | 3756 | 10967 | 36441 | 17076 | 6631 | 4823 | 7126 |
| Mean. | 199 | 138 | 73.9 | 73.3 | 72.7 | 121 | 366 | 1176 | 569 | 214 | 156 | 238 |
| Max. | 262 | 210 | 89 | 86 | 82 | 210 | 851 | 1860 | 1090 | 352 | 206 | 670 |
| Min. | 152 | 85 | 60 | 60 | 60 | 70 | 161 | 357 | 270 | 179 | 121 | 123 |
| Ac.-ft. | 12240 | 8230 | 4540 | 4510 | 4180 | 7450 | 21750 | 72280 | 33870 | 13150 | 9570 | 14130 |

Total run-off for water year 1939-40=205,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande River Near Del Norte, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|
| 1.... | 478 | 510 | 260 | 220 | 220 | 265 | 638 | 1990 | 2960 | 1210 | 471 | 287 |
| 2.... | 471 | 516 | 240 | 230 | 250 | 250 | 660 | 2090 | 2870 | 1200 | 453 | 274 |
| 3.... | 490 | 471 | 240 | 250 | 280 | 260 | 696 | 1970 | 2770 | 1160 | 440 | 261 |
| 4.... | 510 | 471 | 220 | 220 | 270 | 275 | 726 | 1940 | 3020 | 1150 | 378 | 240 |
| 5.... | 510 | 510 | 260 | 210 | 260 | 250 | 624 | 2310 | 3230 | 1170 | 352 | 232 |
| 6.... | 590 | 465 | 296 | 240 | 260 | 240 | 653 | 2720 | 2980 | 1080 | 362 | 253 |
| 7.... | 928 | 327 | 300 | 230 | 260 | 250 | 563 | 2410 | 2610 | 1020 | 459 | 367 |
| 8.... | 1210 | 352 | 313 | 230 | 250 | 260 | 583 | 2530 | 2530 | 1030 | 447 | 406 |
| 9.... | 946 | 497 | 296 | 230 | 250 | 270 | 689 | 2500 | 2460 | 1060 | 362 | 510 |
| 10.... | 742 | 478 | 309 | 210 | 240 | 270 | 646 | 2790 | 2380 | 1000 | 332 | 459 |
| 11.... | 689 | 453 | 318 | 220 | 260 | 260 | 543 | 2740 | 2310 | 1020 | 313 | 478 |
| 12.... | 646 | 411 | 300 | 215 | 260 | 275 | 556 | 2910 | 2260 | 1020 | 296 | 576 |
| 13.... | 624 | 352 | 287 | 220 | 255 | 300 | 604 | 2720 | 2170 | 1070 | 274 | 597 |
| 14.... | 646 | 352 | 244 | 230 | 254 | 340 | 674 | 2340 | 2170 | 1110 | 270 | 689 |
| 15.... | 674 | 389 | 240 | 240 | 265 | 360 | 583 | 2190 | 2280 | 1110 | 257 | 726 |
| 16.... | 846 | 406 | 287 | 250 | 260 | 380 | 516 | 2160 | 2040 | 1070 | 244 | 631 |
| 17.... | 993 | 411 | 300 | 260 | 240 | 420 | 453 | 1950 | 1910 | 1010 | 240 | 556 |
| 18.... | 891 | 352 | 257 | 240 | 250 | 460 | 453 | 2140 | 1800 | 984 | 232 | 510 |
| 19.... | 829 | 378 | 240 | 240 | 260 | 500 | 516 | 2530 | 1660 | 955 | 218 | 459 |
| 20.... | 772 | 383 | 313 | 230 | 250 | 550 | 734 | 3000 | 1510 | 928 | 211 | 428 |
| 21.... | 734 | 378 | 274 | 250 | 245 | 620 | 918 | 3140 | 1470 | 872 | 218 | 417 |
| 22.... | 704 | 357 | 244 | 270 | 240 | 661 | 1160 | 3270 | 1350 | 821 | 229 | 389 |
| 23.... | 674 | 287 | 225 | 260 | 250 | 880 | 1070 | 3210 | 1340 | 667 | 232 | 372 |
| 24.... | 624 | 229 | 185 | 260 | 255 | 800 | 1120 | 3170 | 1370 | 428 | 222 | 357 |
| 25.... | 610 | 230 | 195 | 250 | 265 | 730 | 1190 | 2700 | 1310 | 357 | 229 | 342 |
| 26.... | 583 | 230 | 230 | 253 | 275 | 720 | 1250 | 2360 | 1270 | 337 | 261 | 337 |
| 27.... | 570 | 240 | 220 | 260 | 265 | 720 | 1280 | 2410 | 1210 | 342 | 265 | 367 |
| 28.... | 549 | 240 | 220 | 270 | 250 | 680 | 1510 | 2480 | 1190 | 406 | 278 | 389 |
| 29.... | 523 | 240 | 230 | 265 | ... | 600 | 1920 | 2620 | 1150 | 510 | 342 | 342 |
| 30.... | 523 | 240 | 230 | 250 | ... | 550 | 1560 | 2850 | 1160 | 536 | 352 | 337 |
| 31.... | 510 | ... | 250 | 240 | ... | 680 | ... | 2940 | ... | 523 | 318 | ... |
| Total | 21089 | 11155 | 8023 | 7443 | 7139 | 14076 | 25088 | 79080 | 60740 | 27156 | 9557 | 12588 |
| Mean. | 680 | 372 | 259 | 240 | 255 | 454 | 836 | 2551 | 2025 | 876 | 308 | 420 |
| Max... | 1210 | 516 | 318 | 270 | 280 | 880 | 1920 | 3270 | 3230 | 1210 | 471 | 726 |
| Min... | 471 | 229 | 220 | 210 | 220 | 240 | 453 | 1940 | 1150 | 337 | 211 | 232 |
| Acre-ft. | 41830 | 22130 | 15910 | 14760 | 14160 | 27920 | 49760 | 156900 | 120500 | 53860 | 18960 | 24970 |

Total run-off for water year 1938-39=561,700 acre-feet.

Discharge of Rio Grande River Near Del Norte, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|-------|------|------|------|-------|-------|--------|-------|-------|-------|-------|
| 1.... | 318 | 300 | 159 | 112 | 135 | 165 | 342 | 570 | 1660 | 453 | 225 | 211 |
| 2.... | 313 | 300 | 152 | 112 | 140 | 160 | 318 | 556 | 1590 | 378 | 207 | 211 |
| 3.... | 304 | 296 | 146 | 116 | 140 | 160 | 300 | 734 | 1480 | 322 | 207 | 218 |
| 4.... | 291 | 278 | 146 | 115 | 140 | 155 | 291 | 1170 | 1380 | 304 | 197 | 222 |
| 5.... | 282 | 278 | 152 | 113 | 140 | 150 | 309 | 1440 | 1290 | 296 | 188 | 211 |
| 6.... | 270 | 282 | 146 | 112 | 140 | 155 | 309 | 1550 | 1220 | 291 | 222 | 211 |
| 7.... | 270 | 274 | 141 | 114 | 140 | 150 | 287 | 1620 | 1120 | 278 | 229 | 185 |
| 8.... | 282 | 244 | 144 | 121 | 143 | 155 | 287 | 1740 | 1050 | 270 | 200 | 188 |
| 9.... | 304 | 257 | 148 | 128 | 143 | 175 | 282 | 1630 | 900 | 265 | 182 | 182 |
| 10.... | 296 | 261 | 157 | 131 | 143 | 200 | 278 | 1840 | 797 | 261 | 166 | 176 |
| 11.... | 278 | 218 | 150 | 131 | 143 | 214 | 265 | 2120 | 749 | 253 | 166 | 179 |
| 12.... | 278 | 222 | 150 | 136 | 144 | 188 | 257 | 2120 | 704 | 249 | 166 | 182 |
| 13.... | 274 | 232 | 130 | 130 | 146 | 180 | 274 | 2220 | 726 | 236 | 159 | 182 |
| 14.... | 265 | 229 | 130 | 132 | 146 | 175 | 327 | 2410 | 722 | 244 | 155 | 185 |
| 15.... | 261 | 211 | 130 | 137 | 152 | 191 | 383 | 2570 | 772 | 296 | 148 | 188 |
| 16.... | 257 | 191 | 129 | 139 | 155 | 200 | 394 | 2570 | 772 | 296 | 148 | 182 |
| 17.... | 249 | 185 | 136 | 143 | 150 | 211 | 406 | 2570 | 749 | 274 | 148 | 188 |
| 18.... | 244 | 185 | 128 | 143 | 148 | 211 | 406 | 2590 | 711 | 249 | 157 | 225 |
| 19.... | 244 | 185 | 120 | 143 | 160 | 214 | 459 | 1990 | 638 | 229 | 173 | 653 |
| 20.... | 244 | 163 | 102 | 139 | 162 | 218 | 570 | 1530 | 610 | 222 | 197 | 689 |
| 21.... | 232 | 173 | 102 | 139 | 160 | 249 | 719 | 1330 | 576 | 229 | 278 | 530 |
| 22.... | 225 | 182 | 102 | 135 | 163 | 274 | 805 | 1280 | 576 | 229 | 225 | 447 |
| 23.... | 225 | 168 | 102 | 132 | 166 | 318 | 993 | 1280 | 563 | 218 | 218 | 459 |
| 24.... | 218 | 166 | 105 | 134 | 168 | 337 | 1100 | 1390 | 503 | 214 | 236 | 428 |
| 25.... | 225 | 166 | 110 | 141 | 166 | 352 | 1190 | 1420 | 459 | 222 | 287 | 359 |
| 26.... | 291 | 170 | 109 | 135 | 175 | 378 | 1200 | 1490 | 428 | 240 | 278 | 372 |
| 27.... | 270 | 194 | 106 | 135 | 175 | 362 | 1270 | 1590 | 400 | 300 | 270 | 378 |
| 28.... | 218 | 197 | 103 | 135 | 175 | 347 | 1020 | 1650 | 367 | 322 | 236 | 352 |
| 29.... | 257 | 168 | 108 | 135 | 170 | 313 | 854 | 1620 | 347 | 278 | 222 | 367 |
| 30.... | 278 | 168 | 110 | 135 | ... | 304 | 674 | 1600 | 417 | 261 | 229 | 543 |
| 31.... | 282 | ... | 111 | 135 | ... | 318 | ... | 1650 | ... | 249 | 218 | ... |
| Total | 8245 | 6543 | 3964 | 4038 | 4428 | 7179 | 16569 | 51840 | 24326 | 8428 | 6337 | 9113 |
| Mean. | 266 | 218 | 128 | 130 | 153 | 232 | 552 | 1672 | 811 | 272 | 204 | 304 |
| Max... | 318 | 300 | 159 | 143 | 175 | 378 | 1270 | 2590 | 1660 | 453 | 287 | 689 |
| Min... | 218 | 163 | 102 | 112 | 135 | 150 | 257 | 556 | 347 | 214 | 148 | 176 |
| Ac.-ft. | 16350 | 12980 | 7860 | 8010 | 8780 | 14240 | 32860 | 102820 | 48250 | 16720 | 12570 | 18080 |

Total run-off for water year 1939-40=299,520 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande River Near Monte Vista, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| 1.... | 188 | 235 | 270 | 225 | .... | 210 | 373 | 296 | 855 | 106 | 93 | 80 |
| 2.... | 182 | 270 | 285 | 225 | .... | 210 | 413 | 313 | 814 | 88 | 86 | 69 |
| 3.... | 175 | 270 | 270 | 225 | .... | 210 | 423 | 235 | 749 | 78 | 93 | 71 |
| 4.... | 175 | 262 | 270 | 225 | .... | 210 | 434 | 292 | 864 | 61 | 99 | 69 |
| 5.... | 206 | 277 | 250 | 225 | .... | 210 | 335 | 537 | 958 | 61 | 97 | 69 |
| 6.... | 266 | 326 | 290 | 230 | .... | 210 | 289 | 640 | 805 | 71 | 108 | 74 |
| 7.... | 483 | 344 | 330 | 230 | .... | 210 | 235 | 525 | 687 | 71 | 116 | 82 |
| 8.... | 976 | 309 | 349 | 230 | .... | 210 | 188 | 674 | 741 | 97 | 120 | 80 |
| 9.... | 967 | 368 | 349 | 230 | .... | 210 | 220 | 543 | 694 | 143 | 102 | 88 |
| 10.... | 680 | 512 | 331 | 230 | .... | 210 | 258 | 626 | 640 | 143 | 95 | 84 |
| 11.... | 600 | 483 | 331 | 220 | .... | 220 | 199 | 556 | 667 | 97 | 95 | 73 |
| 12.... | 531 | 450 | 322 | 220 | .... | 220 | 166 | 626 | 687 | 88 | 84 | 78 |
| 13.... | 466 | 397 | 309 | 220 | .... | 220 | 162 | 741 | 613 | 93 | 73 | 63 |
| 14.... | 472 | 373 | 258 | 220 | .... | 220 | 151 | 772 | 620 | 102 | 71 | 84 |
| 15.... | 489 | 423 | 235 | 220 | .... | 220 | 133 | 855 | 680 | 111 | 78 | 97 |
| 16.... | 613 | 444 | 335 | 220 | .... | 520 | 108 | 814 | 633 | 125 | 76 | 78 |
| 17.... | 847 | 450 | 335 | 220 | .... | 520 | 58 | 702 | 525 | 113 | 84 | 28 |
| 18.... | 797 | 402 | 335 | 220 | .... | 520 | 41 | 702 | 428 | 97 | 82 | 23 |
| 19.... | 687 | 392 | 270 | 220 | .... | 520 | 47 | 789 | 344 | 82 | 78 | 40 |
| 20.... | 633 | 434 | 260 | 220 | .... | 520 | 36 | 889 | 251 | 91 | 80 | 44 |
| 21.... | 581 | 418 | 300 | 220 | .... | 958 | 78 | 838 | 195 | 99 | 86 | 63 |
| 22.... | 550 | 382 | 270 | 220 | .... | 958 | 199 | 914 | 151 | 99 | 82 | 52 |
| 23.... | 512 | 344 | 250 | 220 | .... | 855 | 232 | 985 | 106 | 99 | 75 | 31 |
| 24.... | 472 | 292 | 230 | 220 | .... | 764 | 182 | 830 | 116 | 65 | 69 | 21 |
| 25.... | 428 | 263 | 225 | 220 | .... | 756 | 266 | 889 | 86 | 51 | 71 | 15 |
| 26.... | 382 | 260 | 225 | 215 | .... | 680 | 296 | 814 | 97 | 69 | 69 | 15 |
| 27.... | 335 | 260 | 225 | 215 | .... | 640 | 281 | 780 | 95 | 93 | 69 | 15 |
| 28.... | 300 | 270 | 225 | 215 | .... | 512 | 296 | 814 | 97 | 113 | 73 | 19 |
| 29.... | 251 | 270 | 225 | 215 | .... | 418 | 500 | 855 | 95 | 125 | 82 | 26 |
| 30.... | 213 | 270 | 226 | 215 | .... | 358 | 318 | 847 | 93 | 116 | 84 | 24 |
| 31.... | 220 | .... | 225 | 215 | .... | 358 | .... | 838 | .... | 102 | 88 | .... |
| Total | 14677 | 10450 | 8610 | 6865 | 5880 | 13057 | 6917 | 21531 | 14386 | 2949 | 2656 | 1655 |
| Mean. | 473 | 348 | 278 | 221 | 210 | 421 | 231 | 695 | 480 | 95.1 | 85.7 | 55.2 |
| Max.. | 976 | 512 | 349 | .... | .... | 958 | 500 | 985 | 958 | 143 | 120 | 97 |
| Min.. | 175 | 235 | .... | .... | .... | .... | 36 | 235 | 86 | 51 | 69 | 15 |
| Acre-ft. | 29110 | 20730 | 17080 | 13620 | 11660 | 25900 | 13720 | 42710 | 28530 | 5850 | 5270 | 3280 |

Total run-off for water year 1938-39=217,460 acre-feet.

Discharge of Rio Grande River Near Monte Vista, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 19 | 18 | 172 | 110 | 135 | 175 | 19 | 118 | 640 | 116 | 91 | 80 |
| 2.... | 18 | 19 | 169 | 110 | 135 | 180 | 17 | 123 | 581 | 91 | 82 | 76 |
| 3.... | 17 | 19 | 166 | 115 | 135 | 175 | 15 | 159 | 568 | 86 | 71 | 74 |
| 4.... | 16 | 18 | 172 | 115 | 140 | 175 | 11 | 251 | 543 | 84 | 67 | 76 |
| 5.... | 16 | 15 | 166 | 115 | 140 | 195 | 14 | 494 | 466 | 88 | 51 | 71 |
| 6.... | 17 | 15 | 166 | 115 | 140 | 206 | 12 | 581 | 434 | 91 | 38 | 61 |
| 7.... | 23 | 14 | 156 | 115 | 140 | 169 | 12 | 626 | 335 | 91 | 60 | 65 |
| 8.... | 30 | 10 | 159 | 120 | 140 | 143 | 10 | 741 | 262 | 84 | 73 | 69 |
| 9.... | 32 | 10 | 151 | 125 | 140 | 133 | 10 | 710 | 182 | 80 | 60 | 67 |
| 10.... | 41 | 12 | 102 | 130 | 140 | 116 | 9 | 822 | 95 | 93 | 42 | 60 |
| 11.... | 41 | 10 | 93 | 130 | 140 | 106 | 8 | 855 | 102 | 91 | 35 | 61 |
| 12.... | 35 | 12 | 97 | 130 | 145 | 97 | 10 | 710 | 71 | 86 | 31 | 69 |
| 13.... | 34 | 12 | 102 | 135 | 145 | 104 | 30 | 680 | 95 | 80 | 28 | 67 |
| 14.... | 36 | 12 | 111 | 140 | 145 | 120 | 35 | 702 | 143 | 78 | 19 | 71 |
| 15.... | 36 | 17 | 93 | 140 | 150 | 118 | 34 | 710 | 143 | 71 | 26 | 76 |
| 16.... | 40 | 20 | 130 | 140 | 155 | 52 | 32 | 640 | 125 | 56 | 35 | 74 |
| 17.... | 35 | 47 | 135 | 145 | 150 | 30 | 46 | 772 | 123 | 52 | 32 | 67 |
| 18.... | 26 | 58 | 135 | 145 | 150 | 28 | 42 | 940 | 108 | 69 | 30 | 76 |
| 19.... | 23 | 123 | 125 | 145 | 155 | 17 | 41 | 633 | 97 | 88 | 38 | 97 |
| 20.... | 22 | 148 | 110 | 140 | 160 | 15 | 54 | 392 | 106 | 80 | 41 | 93 |
| 21.... | 22 | 148 | 100 | 140 | 160 | 14 | 84 | 444 | 108 | 78 | 49 | 54 |
| 22.... | 22 | 175 | 100 | 140 | 160 | 23 | 93 | 543 | 106 | 80 | 44 | 80 |
| 23.... | 19 | 175 | 100 | 140 | 165 | 21 | 125 | 512 | 104 | 78 | 51 | 97 |
| 24.... | 17 | 162 | 100 | 140 | 165 | 24 | 285 | 478 | 93 | 73 | 69 | 86 |
| 25.... | 15 | 162 | 105 | 135 | 165 | 24 | 373 | 466 | 97 | 63 | 78 | 80 |
| 26.... | 13 | 153 | 110 | 135 | 165 | 20 | 408 | 519 | 108 | 56 | 71 | 80 |
| 27.... | 14 | 166 | 110 | 135 | 170 | 15 | 402 | 512 | 116 | 82 | 73 | 86 |
| 28.... | 15 | 185 | 105 | 135 | 170 | 14 | 335 | 478 | 108 | 97 | 73 | 80 |
| 29.... | 11 | 185 | 105 | 135 | 170 | 12 | 220 | 472 | 104 | 91 | 71 | 82 |
| 30.... | 12 | 169 | 110 | 135 | .... | 12 | 175 | 562 | 116 | 88 | 80 | 111 |
| 31.... | 15 | .... | 110 | 135 | .... | 12 | .... | 620 | .... | 104 | 76 | .... |
| Total | 732 | 2289 | 3865 | 4065 | 4370 | 2545 | 2961 | 17265 | 6279 | 2545 | 1685 | 2286 |
| Mean. | 23.6 | 76.3 | 125 | 131 | 151 | 82.1 | 96.7 | 557 | 209 | 82.1 | 54.4 | 76.2 |
| Max.. | 41 | 185 | 172 | 145 | 170 | 206 | 408 | 940 | 640 | 116 | 91 | 111 |
| Min.. | 11 | 10 | 93 | 110 | 135 | 12 | 8 | 118 | 71 | 52 | 19 | 54 |
| Acre-ft. | 1450 | 4540 | 7670 | 8060 | 8670 | 5050 | 5870 | 34240 | 12450 | 5050 | 3340 | 4530 |

Total run-off for water year 1939-40=100,920 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande River at Alamosa, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-------|
| 1.... | 31 | 177 | 470 | 230 | 215 | 230 | 395 | 55 | 61 | 45 | 24 | 24 |
| 2.... | 31 | 175 | 490 | 230 | 215 | 230 | 413 | 50 | 62 | 46 | 25 | 23 |
| 3.... | 30 | 191 | 500 | 230 | 215 | 230 | 466 | 46 | 62 | 47 | 25 | 23 |
| 4.... | 32 | 213 | 420 | 230 | 215 | 230 | 481 | 41 | 56 | 47 | 26 | 20 |
| 5.... | 39 | 221 | 410 | 230 | 215 | 230 | 494 | 46 | 98 | 47 | 26 | 18 |
| 6.... | 38 | 242 | 450 | 240 | 215 | 240 | 392 | 57 | 99 | 46 | 26 | 19 |
| 7.... | 35 | 264 | 450 | 240 | 215 | 240 | 342 | 84 | 51 | 46 | 29 | 18 |
| 8.... | 93 | 276 | 450 | 240 | 215 | 240 | 280 | 57 | 48 | 45 | 32 | 19 |
| 9.... | 575 | 318 | 446 | 240 | 215 | 240 | 242 | 67 | 54 | 45 | 34 | 20 |
| 10.... | 640 | 477 | 433 | 240 | 215 | 240 | 260 | 55 | 60 | 47 | 32 | 20 |
| 11.... | 494 | 534 | 436 | 235 | 215 | 240 | 288 | 50 | 50 | 52 | 29 | 22 |
| 12.... | 460 | 511 | 427 | 235 | 215 | 340 | 198 | 50 | 49 | 48 | 30 | 22 |
| 13.... | 414 | 470 | 405 | 235 | 215 | 340 | 166 | 52 | 58 | 44 | 29 | 21 |
| 14.... | 357 | 424 | 348 | 235 | 215 | 340 | 137 | 56 | 49 | 41 | 32 | 21 |
| 15.... | 351 | 460 | 433 | 235 | 215 | 340 | 112 | 50 | 45 | 44 | 40 | 23 |
| 16.... | 375 | 528 | 430 | 215 | 220 | 642 | 99 | 53 | 44 | 43 | 34 | 25 |
| 17.... | 500 | 514 | 420 | 215 | 220 | 635 | 89 | 44 | 43 | 42 | 33 | 20 |
| 18.... | 686 | 514 | 400 | 215 | 220 | 569 | 78 | 42 | 43 | 40 | 32 | 18 |
| 19.... | 668 | 490 | 350 | 215 | 220 | 505 | 68 | 40 | 42 | 41 | 32 | 16 |
| 20.... | 604 | 524 | 340 | 215 | 220 | 642 | 66 | 49 | 39 | 40 | 32 | 16 |
| 21.... | 558 | 545 | 330 | 210 | 220 | 692 | 65 | 57 | 37 | 40 | 32 | 16 |
| 22.... | 524 | 514 | 300 | 210 | 220 | 812 | 63 | 60 | 36 | 40 | 32 | 16 |
| 23.... | 494 | 460 | 270 | 210 | 220 | 896 | 61 | 85 | 36 | 39 | 30 | 16 |
| 24.... | 456 | 390 | 250 | 210 | 220 | 896 | 62 | 58 | 40 | 37 | 29 | 15 |
| 25.... | 414 | 362 | 230 | 210 | 220 | 848 | 57 | 56 | 42 | 31 | 27 | 15 |
| 26.... | 375 | 390 | 230 | 215 | 220 | 824 | 55 | 74 | 41 | 21 | 27 | 15 |
| 27.... | 305 | 440 | 230 | 215 | 220 | 760 | 52 | 72 | 39 | 20 | 28 | 13 |
| 28.... | 269 | 470 | 230 | 215 | 220 | 699 | 47 | 79 | 40 | 21 | 28 | 13 |
| 29.... | 235 | 450 | 230 | 215 | ... | 562 | 48 | 95 | 41 | 22 | 27 | 15 |
| 30.... | 196 | 460 | 230 | 215 | ... | 468 | 60 | 102 | 40 | 21 | 26 | 19 |
| 31.... | 189 | ... | 232 | 215 | ... | 398 | ... | 73 | ... | 22 | 26 | ... |
| Total | 10468 | 12004 | 11300 | 6935 | 6085 | 14898 | 5628 | 1863 | 1508 | 1213 | 914 | 561 |
| Mean. | 338 | 400 | 365 | 224 | 217 | 481 | 188 | 60.1 | 50.3 | 39.1 | 29.5 | 18.7 |
| Max. | 686 | 545 | 500 | ... | ... | 896 | 494 | 102 | 99 | 52 | 40 | 25 |
| Min. | 30 | 175 | ... | ... | ... | ... | 47 | 40 | 36 | 20 | 24 | 13 |
| Acre-ft. | 20760 | 23810 | 22410 | 13760 | 12070 | 29550 | 11160 | 3700 | 2990 | 2410 | 1810 | 1110 |

Total run-off for water year 1938-39=145,540 acre-feet.

Discharge of Rio Grande River at Alamosa, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|------|------|------|------|------|------|------|------|-------|-------|
| 1.... | 16 | 4.6 | 78 | 125 | 153 | 218 | 29 | 46 | 36 | 41 | 33 | 16 |
| 2.... | 14 | 5.2 | 75 | 128 | 157 | 230 | 23 | 46 | 43 | 43 | 34 | 16 |
| 3.... | 14 | 7.0 | 73 | 130 | 160 | 250 | 22 | 41 | 42 | 43 | 27 | 16 |
| 4.... | 13 | 5.8 | 71 | 135 | 164 | 280 | 21 | 48 | 36 | 42 | 19 | 16 |
| 5.... | 13 | 5.8 | 75 | 138 | 158 | 300 | 20 | 45 | 35 | 41 | 16 | 16 |
| 6.... | 13 | 4.6 | 84 | 138 | 152 | 300 | 19 | 42 | 35 | 40 | 16 | 16 |
| 7.... | 13 | 4.6 | 87 | 135 | 150 | 287 | 18 | 42 | 40 | 40 | 16 | 16 |
| 8.... | 15 | 4.0 | 79 | 130 | 152 | 263 | 17 | 36 | 42 | 39 | 15 | 16 |
| 9.... | 14 | 4.0 | 79 | 130 | 153 | 226 | 16 | 39 | 43 | 39 | 15 | 16 |
| 10.... | 14 | 4.0 | 79 | 132 | 153 | 196 | 16 | 45 | 39 | 39 | 15 | 16 |
| 11.... | 14 | 4.6 | 60 | 132 | 150 | 181 | 15 | 85 | 41 | 38 | 13 | 16 |
| 12.... | 14 | 5.8 | 46 | 134 | 145 | 169 | 14 | 63 | 42 | 39 | 12 | 17 |
| 13.... | 14 | 5.8 | 49 | 140 | 140 | 120 | 15 | 41 | 41 | 39 | 13 | 18 |
| 14.... | 13 | 5.8 | 71 | 135 | 140 | 130 | 15 | 36 | 41 | 38 | 10 | 18 |
| 15.... | 13 | 5.8 | 58 | 130 | 145 | 158 | 13 | 44 | 41 | 36 | 10 | 18 |
| 16.... | 13 | 5.8 | 70 | 128 | 155 | 135 | 13 | 44 | 43 | 38 | 10 | 18 |
| 17.... | 13 | 6.4 | 88 | 128 | 159 | 100 | 14 | 22 | 41 | 39 | 10 | 20 |
| 18.... | 13 | 6.4 | 98 | 130 | 160 | 82 | 13 | 42 | 41 | 39 | 10 | 24 |
| 19.... | 13 | 7.0 | 102 | 130 | 161 | 68 | 19 | 127 | 41 | 38 | 8.9 | 24 |
| 20.... | 12 | 7.0 | 109 | 130 | 163 | 61 | 22 | 83 | 41 | 39 | 8.1 | 24 |
| 21.... | 12 | 7.0 | 103 | 130 | 164 | 55 | 23 | 61 | 40 | 39 | 8.9 | 26 |
| 22.... | 12 | 7.8 | 102 | 130 | 165 | 53 | 34 | 63 | 40 | 39 | 21 | 24 |
| 23.... | 9.4 | 8.6 | 110 | 125 | 168 | 50 | 50 | 82 | 42 | 39 | 18 | 20 |
| 24.... | 5.8 | 19 | 110 | 128 | 170 | 48 | 39 | 108 | 41 | 38 | 17 | 20 |
| 25.... | 5.8 | 37 | 116 | 132 | 172 | 45 | 46 | 96 | 39 | 36 | 17 | 19 |
| 26.... | 5.2 | 62 | 120 | 135 | 176 | 45 | 42 | 80 | 39 | 35 | 16 | 18 |
| 27.... | 5.2 | 85 | 110 | 138 | 182 | 44 | 50 | 72 | 41 | 35 | 16 | 18 |
| 28.... | 5.2 | 84 | 110 | 141 | 200 | 42 | 44 | 63 | 40 | 34 | 16 | 18 |
| 29.... | 5.2 | 78 | 110 | 145 | 214 | 38 | 42 | 39 | 41 | 33 | 16 | 18 |
| 30.... | 5.2 | 78 | 120 | 148 | ... | 36 | 40 | 34 | 41 | 38 | 16 | 19 |
| 31.... | 4.6 | ... | 125 | 150 | ... | 35 | ... | 33 | ... | 35 | 16 | ... |
| Total | 346.6 | 576.4 | 2767 | 4140 | 4681 | 4245 | 764 | 1748 | 1208 | 1191 | 488.9 | 557 |
| Mean. | 11.2 | 19.2 | 89.3 | 134 | 161 | 137 | 25.5 | 56.4 | 40.3 | 38.4 | 15.8 | 18.6 |
| Max. | 16 | 85 | 125 | 150 | 214 | 300 | 50 | 127 | 43 | 43 | 34 | 26 |
| Min. | 4.6 | 4.0 | 46 | 125 | 140 | 35 | 13 | 22 | 35 | 33 | 8.1 | 16 |
| Acre-ft. | 687 | 1140 | 5490 | 8210 | 9280 | 8420 | 1520 | 3470 | 2400 | 2360 | 970 | 1100 |

Total run-off for water year 1939-40=45,050 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Rio Grande River Above Mouth of Trinchera Creek Near Las Sauces, Colo.,
for Year Ending Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|
| 1.... | 131 | 330 | 524 | 358 | 260 | 260 | 745 | 261 | 88 | 12 | 5.2 | 2.7 |
| 2.... | 127 | 321 | 553 | 358 | 255 | 260 | 731 | 279 | 86 | 10 | 4.4 | 2.7 |
| 3.... | 124 | 321 | 624 | 358 | 255 | 265 | 749 | 261 | 89 | 9.0 | 4.4 | 2.7 |
| 4.... | 120 | 342 | 542 | 368 | 260 | 270 | 791 | 225 | 86 | 8.6 | 3.8 | 16 |
| 5.... | 113 | 358 | 605 | 364 | 255 | 270 | 818 | 210 | 93 | 7.6 | 3.8 | 47 |
| 6.... | 115 | 371 | 612 | 380 | 250 | 260 | 795 | 206 | 68 | 6.9 | 4.4 | 38 |
| 7.... | 129 | 419 | 593 | 368 | 255 | 265 | 722 | 232 | 56 | 7.2 | 6.2 | 40 |
| 8.... | 211 | 438 | 597 | 348 | 260 | 265 | 637 | 271 | 66 | 6.9 | 5.5 | 35 |
| 9.... | 506 | 452 | 608 | 339 | 265 | 270 | 580 | 220 | 40 | 5.8 | 5.2 | 32 |
| 10.... | 816 | 499 | 605 | 377 | 260 | 275 | 557 | 208 | 40 | 5.2 | 5.2 | 30 |
| 11.... | 792 | 578 | 620 | 390 | 255 | 280 | 564 | 180 | 36 | 4.4 | 4.8 | 32 |
| 12.... | 684 | 612 | 628 | 384 | 255 | 290 | 527 | 184 | 31 | 4.1 | 4.4 | 34 |
| 13.... | 640 | 620 | 586 | 333 | 255 | 340 | 452 | 165 | 31 | 4.1 | 4.8 | 76 |
| 14.... | 567 | 553 | 455 | 276 | 260 | 370 | 427 | 167 | 30 | 3.8 | 4.4 | 43 |
| 15.... | 535 | 616 | 384 | 294 | 265 | 410 | 427 | 196 | 29 | 4.1 | 4.4 | 42 |
| 16.... | 528 | 601 | 403 | 290 | 260 | 440 | 424 | 186 | 35 | 3.8 | 4.4 | 43 |
| 17.... | 556 | 620 | 475 | 280 | 255 | 550 | 395 | 174 | 31 | 3.4 | 4.1 | 45 |
| 18.... | 668 | 616 | 528 | 280 | 260 | 680 | 374 | 165 | 28 | 2.7 | 3.8 | 38 |
| 19.... | 772 | 620 | 438 | 276 | 255 | 800 | 305 | 144 | 32 | 2.7 | 4.8 | 34 |
| 20.... | 736 | 608 | 432 | 270 | 255 | 1000 | 268 | 112 | 31 | 2.7 | 5.2 | 30 |
| 21.... | 708 | 628 | 469 | 270 | 255 | 960 | 248 | 112 | 34 | 2.4 | 5.8 | 27 |
| 22.... | 676 | 664 | 496 | 270 | 250 | 1060 | 210 | 120 | 28 | 2.0 | 4.4 | 26 |
| 23.... | 652 | 640 | 422 | 270 | 255 | 1120 | 215 | 116 | 27 | 2.4 | 3.0 | 26 |
| 24.... | 624 | 416 | 358 | 270 | 260 | 1170 | 255 | 116 | 27 | 2.0 | 2.7 | 28 |
| 25.... | 593 | 371 | 336 | 270 | 255 | 1180 | 279 | 112 | 24 | 3.0 | 2.0 | 27 |
| 26.... | 560 | 409 | 333 | 270 | 260 | 1160 | 253 | 132 | 20 | 3.8 | 2.4 | 28 |
| 27.... | 528 | 469 | 352 | 270 | 265 | 1140 | 248 | 116 | 18 | 4.4 | 2.4 | 28 |
| 28.... | 462 | 538 | 355 | 270 | 266 | 1090 | 235 | 109 | 17 | 2.4 | 2.7 | 25 |
| 29.... | 422 | 513 | 364 | 270 | .... | 1020 | 203 | 107 | 14 | 2.7 | 2.7 | 25 |
| 30.... | 380 | 517 | 368 | 270 | .... | 910 | 210 | 96 | 12 | 3.8 | 2.4 | 32 |
| 31.... | 342 | .... | 371 | 270 | .... | 804 | .... | 96 | .... | 5.2 | 2.4 | .... |
| Total | 14817 | 15060 | 15036 | 9681 | 7216 | 18934 | 13644 | 5278 | 1247 | 149.1 | 126.1 | 935.1 |
| Mean. | 478 | 502 | 485 | 312 | 258 | 611 | 455 | 170 | 41.6 | 4.81 | 4.07 | 31.2 |
| Max.. | 816 | 664 | 628 | 390 | 266 | 1180 | 818 | 279 | 93 | 12 | 6.2 | 76 |
| Min.. | 113 | 321 | 333 | 270 | 250 | 260 | 203 | 96 | 12 | 2.0 | 2.0 | 2.7 |
| Acre-ft. 29390 | 29870 | 29820 | 19160 | 14310 | 37560 | 27060 | 10470 | 2470 | 296 | 250 | 1850 | |

Total run-off for water year 1938-39=202,510 acre-feet.

**Discharge of Rio Grande River Above Mouth of Trinchera Creek Near Las Sauces, Colorado,
for Year Ending Sept. 30, 1940.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------------|------|------|------|-------|-------|------|------|------|-------|------|------|-------|
| 1.... | 36 | 25 | 116 | 160 | 175 | 260 | 64 | 21 | 43 | 0.8 | 1.0 | 2.0 |
| 2.... | 30 | 26 | 114 | 160 | 178 | 260 | 60 | 18 | 42 | 0.6 | 0.9 | 2.0 |
| 3.... | 29 | 24 | 112 | 160 | 178 | 265 | 56 | 17 | 39 | 0.5 | 0.9 | 1.5 |
| 4.... | 26 | 26 | 112 | 160 | 180 | 300 | 50 | 16 | 42 | 0.4 | 0.9 | 1.5 |
| 5.... | 26 | 27 | 115 | 155 | 180 | 340 | 47 | 15 | 42 | 0.6 | 0.9 | 0.9 |
| 6.... | 26 | 27 | 118 | 150 | 185 | 345 | 47 | 13 | 42 | 2.5 | 1.0 | 0.9 |
| 7.... | 26 | 26 | 120 | 148 | 185 | 335 | 45 | 11 | 39 | 2.0 | 1.0 | 0.9 |
| 8.... | 31 | 27 | 122 | 145 | 185 | 330 | 42 | 13 | 35 | 1.0 | 0.9 | 0.8 |
| 9.... | 32 | 30 | 124 | 145 | 185 | 330 | 41 | 11 | 34 | 1.0 | 0.9 | 0.8 |
| 10.... | 29 | 32 | 126 | 150 | 185 | 315 | 39 | 11 | 31 | 0.9 | 0.9 | 0.7 |
| 11.... | 29 | 32 | 128 | 155 | 180 | 305 | 38 | 11 | 28 | 0.9 | 0.9 | 0.7 |
| 12.... | 28 | 32 | 107 | 155 | 175 | 270 | 38 | 13 | 26 | 0.9 | 0.9 | 0.7 |
| 13.... | 27 | 31 | 110 | 155 | 175 | 250 | 36 | 16 | 24 | 1.5 | 0.9 | 0.7 |
| 14.... | 28 | 30 | 120 | 148 | 178 | 230 | 36 | 18 | 21 | 4.5 | 0.9 | 0.7 |
| 15.... | 29 | 34 | 130 | 148 | 180 | 232 | 34 | 42 | 18 | 1.5 | 0.9 | 2.0 |
| 16.... | 28 | 37 | 128 | 145 | 180 | 246 | 31 | 25 | 16 | 1.5 | 0.9 | 0.8 |
| 17.... | 28 | 38 | 126 | 148 | 180 | 206 | 27 | 23 | 15 | 1.0 | 0.9 | 0.9 |
| 18.... | 29 | 41 | 124 | 148 | 180 | 176 | 24 | 43 | 13 | 1.0 | 0.9 | 2.5 |
| 19.... | 29 | 48 | 124 | 150 | 185 | 156 | 22 | 39 | 9.6 | 1.5 | 0.9 | 3.0 |
| 20.... | 29 | 54 | 122 | 150 | 180 | 140 | 21 | 32 | 8.4 | 2.5 | 0.9 | 0.8 |
| 21.... | 29 | 60 | 120 | 150 | 180 | 135 | 21 | 32 | 7.8 | 2.5 | 1.0 | 0.7 |
| 22.... | 29 | 64 | 120 | 155 | 185 | 127 | 21 | 31 | 6.0 | 1.5 | 1.0 | 0.7 |
| 23.... | 29 | 83 | 120 | 160 | 190 | 111 | 23 | 30 | 5.0 | 1.5 | 1.0 | 0.7 |
| 24.... | 29 | 75 | 120 | 165 | 190 | 106 | 24 | 33 | 4.5 | 1.5 | 1.0 | 0.8 |
| 25.... | 26 | 86 | 124 | 160 | 192 | 99 | 23 | 36 | 3.0 | 1.5 | 2.0 | 1.6 |
| 26.... | 25 | 136 | 130 | 160 | 205 | 94 | 21 | 41 | 2.5 | 1.5 | 2.0 | 6.6 |
| 27.... | 26 | 132 | 140 | 160 | 230 | 91 | 18 | 39 | 2.0 | 1.5 | 1.8 | 3.5 |
| 28.... | 26 | 132 | 140 | 160 | 240 | 88 | 21 | 38 | 1.0 | 1.5 | 4.0 | 2.0 |
| 29.... | 26 | 111 | 155 | 165 | 245 | 83 | 21 | 49 | 1.5 | 1.5 | 1.0 | 2.0 |
| 30.... | 26 | 107 | 162 | 165 | .... | 76 | 22 | 57 | 1.5 | 1.5 | 0.9 | 6.6 |
| 31.... | 26 | .... | 162 | 170 | .... | 70 | .... | 50 | .... | 1.0 | 2.0 | .... |
| Total | 872 | 1633 | 3891 | 4805 | 5466 | 6370 | 1013 | 844 | 602.8 | 44.1 | 52.2 | 64.4 |
| Mean. | 28.1 | 54.4 | 126 | 155 | 188 | 205 | 33.8 | 27.2 | 20.1 | 1.42 | 1.68 | 2.15 |
| Max.. | 36 | 136 | 162 | 170 | 245 | 345 | 64 | 57 | 43 | 4.5 | 1.8 | 16 |
| Min.. | 25 | 24 | 107 | 145 | 175 | 70 | 18 | 11 | 1.0 | 0.4 | 0.9 | 0.7 |
| Acre-ft. 1730 | 3240 | 7720 | 9530 | 10840 | 12630 | 2010 | 1670 | 1200 | 87 | 104 | 128 | |

Total run-off for water year 1939-40=50,890 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande River Near Lobatos, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|
| 1.... | 181 | 427 | 590 | 420 | 340 | 350 | 892 | 1100 | 223 | 27 | 17 | 16 |
| 2.... | 186 | 421 | 600 | 420 | 350 | 350 | 884 | 1250 | 177 | 26 | 18 | 16 |
| 3.... | 172 | 408 | 690 | 430 | 360 | 350 | 946 | 1270 | 172 | 21 | 16 | 15 |
| 4.... | 172 | 414 | 600 | 430 | 350 | 350 | 1040 | 1120 | 168 | 20 | 19 | 13 |
| 5.... | 168 | 440 | 660 | 430 | 350 | 350 | 1150 | 1130 | 172 | 18 | 21 | 21 |
| 6.... | 159 | 389 | 665 | 440 | 340 | 350 | 1070 | 1070 | 223 | 17 | 18 | 46 |
| 7.... | 186 | 488 | 650 | 450 | 340 | 350 | 1020 | 1180 | 209 | 16 | 28 | 39 |
| 8.... | 261 | 537 | 645 | 440 | 340 | 350 | 892 | 1060 | 164 | 15 | 28 | 42 |
| 9.... | 364 | 682 | 660 | 420 | 340 | 350 | 788 | 964 | 127 | 15 | 27 | 41 |
| 10.... | 730 | 722 | 650 | 410 | 340 | 360 | 780 | 919 | 88 | 13 | 21 | 41 |
| 11.... | 901 | 730 | 670 | 450 | 335 | 370 | 831 | 910 | 76 | 13 | 18 | 41 |
| 12.... | 814 | 730 | 675 | 460 | 335 | 380 | 780 | 892 | 63 | 12 | 16 | 42 |
| 13.... | 746 | 730 | 660 | 460 | 335 | 400 | 698 | 788 | 54 | 10 | 16 | 51 |
| 14.... | 706 | 650 | 520 | 410 | 335 | 450 | 674 | 674 | 46 | 10 | 14 | 79 |
| 15.... | 650 | 619 | 450 | 360 | 335 | 520 | 722 | 706 | 41 | 12 | 14 | 63 |
| 16.... | 635 | 635 | 470 | 370 | 330 | 550 | 714 | 682 | 41 | 14 | 13 | 56 |
| 17.... | 674 | 674 | 540 | 370 | 330 | 613 | 650 | 627 | 42 | 11 | 13 | 56 |
| 18.... | 746 | 674 | 600 | 360 | 330 | 730 | 596 | 537 | 41 | 10 | 13 | 56 |
| 19.... | 857 | 666 | 500 | 350 | 330 | 860 | 522 | 460 | 38 | 10 | 13 | 51 |
| 20.... | 875 | 650 | 500 | 334 | 330 | 1040 | 447 | 434 | 44 | 9.0 | 13 | 44 |
| 21.... | 814 | 642 | 550 | 340 | 330 | 1240 | 440 | 522 | 46 | 8.5 | 24 | 41 |
| 22.... | 780 | 706 | 570 | 340 | 330 | 1300 | 454 | 551 | 46 | 8.5 | 16 | 38 |
| 23.... | 746 | 690 | 490 | 340 | 330 | 1490 | 573 | 515 | 42 | 9.5 | 16 | 39 |
| 24.... | 722 | 475 | 430 | 340 | 330 | 1560 | 772 | 474 | 42 | 8.0 | 15 | 38 |
| 25.... | 690 | 430 | 400 | 340 | 330 | 1590 | 698 | 414 | 41 | 8.5 | 15 | 39 |
| 26.... | 658 | 465 | 400 | 340 | 335 | 1480 | 627 | 395 | 36 | 8.5 | 15 | 42 |
| 27.... | 627 | 530 | 410 | 340 | 340 | 1460 | 635 | 382 | 33 | 8.0 | 17 | 44 |
| 28.... | 566 | 600 | 410 | 340 | 340 | 1400 | 722 | 324 | 34 | 12 | 18 | 51 |
| 29.... | 508 | 575 | 420 | 340 | .... | 1270 | 814 | 292 | 30 | 13 | 18 | 39 |
| 30.... | 481 | 575 | 420 | 340 | .... | 1130 | 982 | 252 | 28 | 13 | 17 | 38 |
| 31.... | 440 | .... | 420 | 340 | .... | 982 | .... | 237 | .... | 14 | 16 | .... |
| Total | 17215 | 17374 | 16915 | 11954 | 9440 | 24325 | 22813 | 22131 | 2587 | 410.5 | 543 | 1241 |
| Mean. | 555 | 579 | 546 | 386 | 337 | 785 | 760 | 714 | 86.2 | 13.2 | 17.5 | 41.4 |
| Max.. | 901 | 730 | 690 | 460 | 360 | 1590 | 1150 | 1270 | 223 | 27 | 28 | 79 |
| Min.. | 159 | 389 | 400 | 334 | 330 | 350 | 440 | 237 | 28 | 8.0 | 13 | 13 |
| Acre-ft. | 34150 | 34460 | 33550 | 23710 | 18720 | 48250 | 45250 | 43900 | 5130 | 814 | 1080 | 2460 |

Total run-off for water year 1938-39=291,470 acre-feet.

Discharge of Rio Grande River Near Lobatos, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|-------|-------|-------|------|-------|------|------|------|-------|
| 1.... | 42 | 68 | 143 | 212 | 230 | 350 | 93 | 99 | 706 | 18 | 5.5 | 19 |
| 2.... | 51 | 68 | 143 | 210 | 240 | 350 | 90 | 90 | 642 | 17 | 5.5 | 16 |
| 3.... | 41 | 68 | 134 | 205 | 235 | 350 | 79 | 79 | 530 | 16 | 5.5 | 16 |
| 4.... | 41 | 66 | 138 | 204 | 240 | 380 | 79 | 76 | 376 | 15 | 5.0 | 17 |
| 5.... | 36 | 66 | 138 | 201 | 240 | 420 | 74 | 103 | 232 | 15 | 5.5 | 17 |
| 6.... | 33 | 68 | 143 | 197 | 240 | 427 | 79 | 123 | 168 | 13 | 7.5 | 16 |
| 7.... | 34 | 68 | 147 | 190 | 240 | 408 | 79 | 120 | 127 | 12 | 9.5 | 16 |
| 8.... | 41 | 66 | 151 | 192 | 247 | 402 | 74 | 127 | 96 | 12 | 10 | 15 |
| 9.... | 46 | 68 | 159 | 196 | 233 | 395 | 68 | 168 | 76 | 12 | 10 | 13 |
| 10.... | 51 | 76 | 159 | 199 | 233 | 376 | 63 | 159 | 66 | 11 | 10 | 19 |
| 11.... | 46 | 71 | 164 | 204 | 237 | 370 | 56 | 123 | 61 | 10 | 9.0 | 17 |
| 12.... | 49 | 71 | 159 | 207 | 239 | 341 | 54 | 116 | 56 | 10 | 12 | 21 |
| 13.... | 61 | 71 | 160 | 201 | 225 | 335 | 54 | 134 | 49 | 10 | 13 | 25 |
| 14.... | 63 | 71 | 165 | 197 | 237 | 271 | 51 | 181 | 44 | 9.0 | 14 | 25 |
| 15.... | 63 | 71 | 153 | 194 | 248 | 282 | 51 | 228 | 41 | 9.5 | 13 | 25 |
| 16.... | 63 | 71 | 150 | 194 | 244 | 287 | 99 | 266 | 38 | 10 | 9.5 | 25 |
| 17.... | 66 | 82 | 150 | 190 | 235 | 282 | 147 | 308 | 36 | 9.0 | 8.5 | 28 |
| 18.... | 66 | 76 | 148 | 190 | 242 | 247 | 123 | 690 | 33 | 9.5 | 10 | 33 |
| 19.... | 76 | 76 | 154 | 190 | 260 | 232 | 90 | 1100 | 31 | 10 | 11 | 38 |
| 20.... | 68 | 90 | 145 | 200 | 254 | 218 | 58 | 814 | 28 | 10 | 10 | 34 |
| 21.... | 68 | 92 | 143 | 210 | 246 | 209 | 46 | 573 | 27 | 12 | 9.0 | 31 |
| 22.... | 66 | 90 | 145 | 215 | 270 | 204 | 51 | 481 | 26 | 12 | 10 | 30 |
| 23.... | 66 | 88 | 148 | 210 | 268 | 172 | 103 | 481 | 25 | 11 | 15 | 30 |
| 24.... | 66 | 93 | 152 | 210 | 264 | 143 | 159 | 551 | 22 | 12 | 15 | 31 |
| 25.... | 66 | 93 | 167 | 210 | 264 | 138 | 209 | 558 | 20 | 9.0 | 18 | 33 |
| 26.... | 68 | 155 | 175 | 210 | 268 | 120 | 209 | 537 | 18 | 8.5 | 20 | 54 |
| 27.... | 63 | 123 | 182 | 210 | 290 | 120 | 186 | 558 | 18 | 9.5 | 20 | 39 |
| 28.... | 66 | 155 | 198 | 215 | 320 | 164 | 204 | 619 | 17 | 8.5 | 27 | 38 |
| 29.... | 71 | 151 | 196 | 220 | 340 | 155 | 177 | 690 | 16 | 8.5 | 20 | 36 |
| 30.... | 66 | 134 | 200 | 220 | .... | 130 | 120 | 706 | 18 | 8.0 | 18 | 38 |
| 31.... | 68 | .... | 205 | 225 | .... | 110 | .... | 722 | .... | 8.0 | 17 | .... |
| Total | 1771 | 2606 | 4914 | 6328 | 7329 | 8388 | 3025 | 11580 | 3643 | 345 | 373 | 795 |
| Mean. | 57.1 | 86.9 | 159 | 204 | 253 | 271 | 101 | 374 | 121 | 11.1 | 12.0 | 26.5 |
| Max.. | 76 | 155 | 205 | 225 | 340 | 427 | 209 | 1100 | 706 | 18 | 27 | 54 |
| Min.. | 33 | 66 | 134 | 190 | 225 | 110 | 46 | 76 | 16 | 8.0 | 5.0 | 13 |
| Acre-ft. | 3510 | 5170 | 9750 | 12550 | 14540 | 16640 | 6000 | 22970 | 7230 | 684 | 740 | 1580 |

Total run-off for water year 1939-40=101,360 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Clear Creek Below Continental Reservoir, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|------|------|------|------|------|------|------|------|-------|
| 1.... | 16 | 45 | 5 | .... | .... | .... | 20 | 173 | 169 | 41 | 25 | 32 |
| 2.... | 16 | 45 | 5 | .... | .... | .... | 20 | 166 | 169 | 41 | 25 | 30 |
| 3.... | 17 | 45 | 5 | .... | .... | .... | 20 | 131 | 168 | 41 | 23 | 27 |
| 4.... | 16 | 45 | 5 | .... | .... | .... | 20 | 106 | 165 | 40 | 23 | 17 |
| 5.... | 17 | 45 | 5 | .... | .... | .... | 20 | 166 | 145 | 40 | 25 | 11 |
| 6.... | 16 | 44 | 5 | .... | .... | .... | 20 | 228 | 124 | 40 | 27 | 13 |
| 7.... | 17 | 44 | 5 | .... | .... | .... | 20 | 226 | 112 | 40 | 24 | 13 |
| 8.... | 20 | 24 | 5 | .... | .... | .... | 20 | 191 | 110 | 40 | 25 | 15 |
| 9.... | 22 | 6.4 | 5 | .... | .... | .... | 20 | 175 | 108 | 40 | 26 | 19 |
| 10.... | 22 | 5.4 | 5 | .... | .... | .... | 20 | 171 | 108 | 41 | 25 | 18 |
| 11.... | 24 | 5.9 | 5 | .... | .... | .... | 20 | 172 | 108 | 44 | 18 | 18 |
| 12.... | 25 | 7.4 | 5 | .... | .... | .... | 20 | 171 | 89 | 46 | 13 | 19 |
| 13.... | 27 | 7.4 | 5 | .... | .... | .... | 20 | 164 | 72 | 46 | 15 | 19 |
| 14.... | 32 | 6.9 | 5 | .... | .... | .... | 20 | 158 | 72 | 46 | 17 | 18 |
| 15.... | 36 | 6.9 | 5 | .... | .... | .... | 20 | 139 | 72 | 44 | 17 | 13 |
| 16.... | 40 | 4.0 | 5 | .... | .... | .... | 20 | 126 | 66 | 45 | 20 | 13 |
| 17.... | 44 | 3.6 | 5 | .... | .... | .... | 20 | 126 | 54 | 43 | 21 | 12 |
| 18.... | 44 | 5.0 | 5 | .... | .... | .... | 20 | 135 | 54 | 31 | 26 | 12 |
| 19.... | 44 | 5 | 5 | .... | .... | .... | 36 | 149 | 46 | 30 | 27 | 12 |
| 20.... | 44 | 5 | 5 | .... | .... | .... | 56 | 173 | 40 | 33 | 26 | 13 |
| 21.... | 44 | 5 | 5 | .... | .... | .... | 76 | 189 | 39 | 31 | 25 | 12 |
| 22.... | 44 | 5 | 5 | .... | .... | .... | 100 | 188 | 39 | 35 | 26 | 12 |
| 23.... | 44 | 5 | 5 | .... | .... | .... | 106 | 187 | 38 | 37 | 27 | 11 |
| 24.... | 44 | 5 | 5 | .... | .... | .... | 126 | 147 | 38 | 35 | 27 | 10 |
| 25.... | 44 | 5 | 20 | .... | .... | .... | 93 | 102 | 38 | 34 | 18 | 9.3 |
| 26.... | 44 | 5 | 20 | .... | .... | .... | 80 | 78 | 38 | 27 | 14 | 11 |
| 27.... | 44 | 5 | 20 | .... | .... | .... | 108 | 68 | 36 | 28 | 16 | 15 |
| 28.... | 44 | 5 | 20 | .... | .... | .... | 170 | 113 | 36 | 31 | 18 | 14 |
| 29.... | 44 | 5 | 20 | .... | .... | .... | 192 | 143 | 35 | 24 | 19 | 15 |
| 30.... | 44 | 5 | 20 | .... | .... | .... | 175 | 159 | 40 | 21 | 21 | 17 |
| 31.... | 44 | 20 | 20 | .... | .... | .... | 169 | 169 | 24 | 24 | 29 | .. |
| Total | 1023 | 455.9 | 260 | 620 | 560 | 620 | 1678 | 4789 | 2428 | 1139 | 688 | 470.3 |
| Mean.. | 33 | 15.2 | 8.39 | 20 | 20 | 20 | 55.9 | 154 | 80.9 | 36.7 | 22.2 | 15.7 |
| Max.. | 44 | 45 | 20 | .... | .... | .... | 192 | 228 | 169 | 46 | 29 | 32 |
| Min.. | 16 | 3.6 | 5 | .... | .... | .... | 20 | 68 | 35 | 21 | 13 | 9.3 |
| Acre-ft. | 2030 | 904 | 516 | 1230 | 1110 | 1230 | 3330 | 9500 | 4820 | 2260 | 1360 | 933 |

Total run-off for water year 1938-39=29,220 acre-feet.

Discharge of Clear Creek Below Continental Reservoir for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|------|------|-------|-------|------|------|------|------|-------|-------|
| 1.... | 17 | .... | .... | .... | .... | .... | 10 | 26 | 46 | 22 | 8.6 | 14 |
| 2.... | 17 | .... | .... | .... | .... | .... | 10 | 27 | 47 | 22 | 7.8 | 14 |
| 3.... | 17 | .... | .... | .... | .... | .... | 10 | 31 | 45 | 18 | 7.8 | 16 |
| 4.... | 17 | .... | .... | .... | .... | .... | 10 | 32 | 46 | 16 | 8.6 | 17 |
| 5.... | 17 | .... | .... | .... | .... | .... | 10 | 31 | 48 | 16 | 9.0 | 11 |
| 6.... | 17 | .... | .... | .... | .... | .... | 10 | 30 | 47 | 16 | 14 | 8.2 |
| 7.... | 17 | .... | .... | .... | .... | .... | 10 | 28 | 46 | 15 | 14 | 8.2 |
| 8.... | 17 | .... | .... | .... | .... | .... | 10 | 27 | 45 | 14 | 13 | 7.4 |
| 9.... | 17 | .... | .... | .... | .... | .... | 10 | 59 | 58 | 14 | 14 | 8.6 |
| 10.... | 17 | .... | .... | .... | .... | .... | 10 | 136 | 66 | 16 | 14 | 7.8 |
| 11.... | 17 | .... | .... | .... | .... | .... | 10 | 136 | 57 | 16 | 15 | 7.0 |
| 12.... | 10 | .... | .... | .... | .... | .... | 10 | 134 | 30 | 15 | 9.0 | 7.8 |
| 13.... | 10 | .... | .... | .... | .... | .... | 10 | 130 | 22 | 14 | 7.8 | 7.4 |
| 14.... | 10 | .... | .... | .... | .... | .... | 10 | 129 | 22 | 14 | 8.2 | 7.4 |
| 15.... | 10 | .... | .... | .... | .... | .... | 10 | 129 | 24 | 14 | 8.2 | 11 |
| 16.... | 10 | .... | .... | .... | .... | .... | 10 | 128 | 25 | 18 | 9.0 | 15 |
| 17.... | 10 | .... | .... | .... | .... | .... | 10 | 100 | 24 | 18 | 11 | 16 |
| 18.... | 10 | .... | .... | .... | .... | .... | 10 | 70 | 23 | 17 | 12 | 16 |
| 19.... | 10 | .... | .... | .... | .... | .... | 10 | 61 | 21 | 16 | 11 | 14 |
| 20.... | 10 | .... | .... | .... | .... | .... | 10 | 49 | 14 | 16 | 16 | 12 |
| 21.... | 10 | .... | .... | .... | .... | .... | 10 | 42 | 15 | 16 | 18 | 9.4 |
| 22.... | 10 | .... | .... | .... | .... | .... | 17 | 88 | 19 | 16 | 17 | 9.4 |
| 23.... | 10 | .... | .... | .... | .... | .... | 24 | 128 | 20 | 13 | 16 | 9.8 |
| 24.... | 10 | .... | .... | .... | .... | .... | 25 | 66 | 20 | 14 | 12 | 11 |
| 25.... | 11 | .... | .... | .... | .... | .... | 25 | 38 | 21 | 15 | 11 | 11 |
| 26.... | 11 | .... | .... | .... | .... | .... | 25 | 38 | 18 | 16 | 9.8 | 10 |
| 27.... | 11 | .... | .... | .... | .... | .... | 25 | 35 | 20 | 18 | 11 | 9.4 |
| 28.... | 10 | .... | .... | .... | .... | .... | 25 | 39 | 24 | 17 | 11 | 9.8 |
| 29.... | 10 | .... | .... | .... | .... | .... | 25 | 45 | 24 | 12 | 13 | 12 |
| 30.... | 8.3 | .... | .... | .... | .... | .... | 25 | 46 | 22 | 11 | 16 | 14 |
| 31.... | 8.3 | .... | .... | .... | .... | .... | 46 | 46 | 11 | 11 | 16 | .... |
| Total | 386.6 | 255 | 279 | 279 | 275.5 | 294.5 | 426 | 2104 | 959 | 486 | 368.8 | 331.6 |
| Mean.. | 12.5 | 8.5 | 9.0 | 9.0 | 9.5 | 9.5 | 14.2 | 67.9 | 32.0 | 15.7 | 11.9 | 11.1 |
| Max.. | 17 | .... | .... | .... | .... | .... | 25 | 136 | 66 | 22 | 18 | 17 |
| Min.. | 8.3 | .... | .... | .... | .... | .... | 10 | 26 | 14 | 11 | 7.8 | 7.0 |
| Acre-ft. | 767 | 506 | 553 | 553 | 546 | 584 | 845 | 4170 | 1900 | 964 | 732 | 658 |

Total run-off for water year 1939-40=12,780 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Goose Creek Near Wagon Wheel Gap, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1.... | 16 | 20 | 14 | 11 | 12 | 13 | 21 | 30 | 114 | 31 | 18 | 21 |
| 2.... | 15 | 20 | 14 | 12 | 12 | 13 | 20 | 42 | 98 | 26 | 18 | 20 |
| 3.... | 15 | 19 | 12 | 12 | 12 | 13 | 19 | 71 | 90 | 24 | 18 | 23 |
| 4.... | 15 | 18 | 12 | 12 | 13 | 14 | 20 | 98 | 84 | 24 | 18 | 22 |
| 5.... | 15 | 18 | 14 | 12 | 13 | 14 | 21 | 95 | 79 | 18 | 18 | 20 |
| 6.... | 15 | 17 | 13 | 12 | 13 | 13 | 19 | 101 | 69 | 22 | 21 | 20 |
| 7.... | 16 | 16 | 13 | 12 | 14 | 13 | 18 | 101 | 65 | 20 | 20 | 19 |
| 8.... | 18 | 17 | 13 | 12 | 14 | 14 | 18 | 90 | 61 | 21 | 19 | 20 |
| 9.... | 18 | 18 | 14 | 12 | 14 | 14 | 18 | 71 | 53 | 21 | 18 | 19 |
| 10.... | 16 | 17 | 14 | 12 | 14 | 14 | 18 | 82 | 46 | 22 | 18 | 18 |
| 11.... | 16 | 17 | 13 | 12 | 14 | 14 | 18 | 93 | 45 | 22 | 18 | 17 |
| 12.... | 16 | 17 | 14 | 12 | 13 | 14 | 18 | 95 | 44 | 21 | 18 | 18 |
| 13.... | 17 | 16 | 12 | 13 | 13 | 13 | 22 | 101 | 42 | 20 | 17 | 20 |
| 14.... | 17 | 16 | 12 | 13 | 13 | 13 | 28 | 123 | 42 | 21 | 16 | 19 |
| 15.... | 16 | 16 | 12 | 13 | 13 | 13 | 29 | 114 | 44 | 20 | 18 | 20 |
| 16.... | 16 | 16 | 12 | 13 | 14 | 13 | 24 | 110 | 46 | 20 | 18 | 18 |
| 17.... | 16 | 16 | 12 | 13 | 14 | 14 | 24 | 104 | 44 | 19 | 17 | 20 |
| 18.... | 16 | 14 | 12 | 13 | 13 | 14 | 28 | 90 | 40 | 18 | 17 | 55 |
| 19.... | 16 | 13 | 12 | 13 | 14 | 16 | 35 | 71 | 39 | 18 | 21 | 69 |
| 20.... | 16 | 13 | 12 | 13 | 13 | 16 | 45 | 67 | 38 | 19 | 27 | 50 |
| 21.... | 15 | 13 | 12 | 12 | 14 | 17 | 53 | 55 | 35 | 23 | 25 | 40 |
| 22.... | 14 | 13 | 12 | 12 | 13 | 19 | 50 | 55 | 36 | 18 | 23 | 40 |
| 23.... | 14 | 14 | 12 | 12 | 14 | 20 | 57 | 57 | 35 | 17 | 23 | 39 |
| 24.... | 16 | 15 | 12 | 12 | 14 | 21 | 61 | 61 | 29 | 18 | 25 | 40 |
| 25.... | 18 | 15 | 11 | 12 | 13 | 23 | 67 | 65 | 28 | 18 | 25 | 38 |
| 26.... | 20 | 15 | 11 | 12 | 13 | 25 | 71 | 76 | 29 | 29 | 24 | 38 |
| 27.... | 17 | 14 | 11 | 12 | 13 | 23 | 63 | 98 | 28 | 31 | 24 | 38 |
| 28.... | 19 | 14 | 12 | 13 | 13 | 20 | 42 | 107 | 26 | 21 | 25 | 35 |
| 29.... | 20 | 12 | 10 | 13 | 13 | 19 | 35 | 107 | 25 | 20 | 24 | 50 |
| 30.... | 18 | 14 | 10 | 13 | .... | 19 | 30 | 107 | 42 | 20 | 23 | 59 |
| 31.... | 19 | .... | 10 | 12 | .... | 22 | .... | 117 | .... | 19 | 21 | .... |
| Total | 511 | 473 | 379 | 382 | 385 | 503 | 992 | 2654 | 1496 | 661 | 635 | 925 |
| Mean. | 16.5 | 15.8 | 12.2 | 12.3 | 13.3 | 16.2 | 33.1 | 85.6 | 49.9 | 21.3 | 20.5 | 30.8 |
| Max.. | 20 | 20 | 14 | 13 | 14 | 25 | 71 | 123 | 114 | 31 | 27 | 69 |
| Min.. | 14 | 12 | 10 | 11 | 12 | 13 | 18 | 30 | 25 | 17 | 16 | 17 |
| Acre-ft. | 1010 | 938 | 752 | 758 | 764 | 998 | 1970 | 5260 | 2970 | 1310 | 1260 | 1830 |

Total run-off for water year 1939-40=19,820 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Fork of Rio Grande River at South Fork, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|-------|------|------|-------|
| 1.... | 95 | 95 | 62 | .... | .... | 42 | 171 | 453 | 682 | 128 | 72 | 45 |
| 2.... | 95 | 91 | 64 | .... | .... | 42 | 196 | 490 | 672 | 116 | 71 | 44 |
| 3.... | 100 | 79 | 62 | .... | .... | 42 | 219 | 465 | 677 | 104 | 71 | 42 |
| 4.... | 105 | 80 | 60 | .... | .... | 42 | 208 | 437 | 778 | 96 | 59 | 42 |
| 5.... | 105 | 80 | 56 | .... | .... | 42 | 189 | 477 | 766 | 92 | 54 | 43 |
| 6.... | 140 | 75 | 70 | .... | .... | 42 | 196 | 554 | 657 | 86 | 63 | 56 |
| 7.... | 170 | 60 | 90 | .... | .... | 42 | 173 | 506 | 581 | 82 | 80 | 71 |
| 8.... | 220 | 80 | 90 | .... | .... | 42 | 196 | 519 | 537 | 77 | 64 | 74 |
| 9.... | 200 | 100 | 90 | .... | .... | 42 | 227 | 581 | 511 | 77 | 52 | 82 |
| 10.... | 180 | 100 | 90 | .... | .... | 42 | 201 | 652 | 494 | 71 | 52 | 71 |
| 11.... | 170 | 95 | 88 | .... | .... | 50 | 175 | 693 | 481 | 67 | 49 | 98 |
| 12.... | 150 | 90 | 86 | .... | .... | 50 | 182 | 662 | 449 | 64 | 47 | 89 |
| 13.... | 130 | 80 | 82 | .... | .... | 50 | 203 | 581 | 426 | 60 | 45 | 94 |
| 14.... | 135 | 75 | 65 | .... | *42 | 50 | 213 | 528 | 403 | 61 | 45 | 110 |
| 15.... | 140 | 85 | 75 | .... | .... | 50 | 180 | 498 | 367 | 65 | 42 | 142 |
| 16.... | 150 | 95 | 75 | .... | .... | 80 | 158 | 494 | 321 | 75 | 42 | 106 |
| 17.... | 170 | 95 | 75 | .... | .... | 80 | 144 | 445 | 292 | 68 | 42 | 95 |
| 18.... | 165 | 85 | 75 | .... | .... | 80 | 140 | 519 | 258 | 65 | 40 | 86 |
| 19.... | 155 | 94 | 75 | .... | .... | 80 | 156 | 662 | 232 | 62 | 41 | 78 |
| 20.... | 150 | 92 | 75 | .... | .... | 80 | 173 | 729 | 213 | 61 | 41 | 73 |
| 21.... | 145 | 87 | 65 | .... | .... | 110 | 219 | 719 | 196 | 58 | 44 | 68 |
| 22.... | 140 | 83 | 55 | .... | .... | 157 | 264 | 740 | 184 | 58 | 44 | 65 |
| 23.... | 135 | 80 | 50 | .... | .... | 175 | 286 | 724 | 184 | 56 | 42 | 62 |
| 24.... | 128 | 70 | 50 | .... | .... | 200 | 267 | 693 | 175 | 52 | 42 | 59 |
| 25.... | 121 | 62 | 48 | .... | .... | 194 | 238 | 682 | 156 | 50 | 42 | 56 |
| 26.... | 114 | 62 | 47 | *48 | .... | 189 | 232 | 662 | 146 | 54 | 44 | 61 |
| 27.... | 110 | 62 | 47 | .... | .... | 164 | 244 | 677 | 138 | 66 | 55 | 66 |
| 28.... | 107 | 62 | 47 | .... | .... | 133 | 289 | 662 | 137 | 77 | 57 | 58 |
| 29.... | 101 | 62 | 47 | .... | .... | 122 | 356 | 657 | 131 | 83 | 67 | 55 |
| 30.... | 101 | 62 | 47 | .... | .... | 119 | 395 | 682 | 129 | 87 | 52 | 53 |
| 31.... | 95 | .... | 47 | .... | .... | 131 | .... | 662 | .... | 98 | 48 | .... |
| Total | 4222 | 2418 | 2055 | 1488 | 1176 | 2764 | 6490 | 18505 | 11373 | 2316 | 1609 | 2144 |
| Mean. | 136 | 80.6 | 66.3 | 48 | 42 | 89.2 | 216 | 597 | 379 | 74.7 | 51.9 | 71.5 |
| Max. | .... | .... | .... | .... | .... | .... | 395 | 740 | 778 | 128 | 80 | 142 |
| Min. | 95 | .... | .... | .... | .... | .... | 140 | 437 | 129 | 50 | 40 | 42 |
| Acre-ft. | 8370 | 4800 | 4080 | 2950 | 2330 | 5480 | 12870 | 36700 | 22560 | 4590 | 3190 | 4250 |

Total run-off for water year 1938-39=112,170 acre-feet.

*Discharge measurement.

Discharge of South Fork of Rio Grande River at South Fork, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 52 | 52 | 32 | 30 | 36 | 42 | 92 | 169 | 481 | 92 | 52 | 44 |
| 2.... | 51 | 52 | 30 | 32 | 36 | 41 | 80 | 186 | 453 | 78 | 50 | 42 |
| 3.... | 49 | 52 | 31 | 31 | 36 | 40 | 77 | 267 | 426 | 71 | 50 | 49 |
| 4.... | 47 | 50 | 31 | 31 | 36 | 39 | 74 | 363 | 407 | 65 | 45 | 44 |
| 5.... | 47 | 52 | 32 | 30 | 36 | 40 | 82 | 385 | 429 | 65 | 44 | 40 |
| 6.... | 47 | 54 | 31 | 30 | 36 | 41 | 77 | 403 | 437 | 69 | 60 | 38 |
| 7.... | 47 | 47 | 30 | 32 | 38 | 41 | 73 | 418 | 418 | 58 | 57 | 38 |
| 8.... | 59 | 50 | 31 | 34 | 38 | 43 | 75 | 399 | 395 | 58 | 52 | 42 |
| 9.... | 58 | 54 | 33 | 35 | 38 | 50 | 80 | 381 | 288 | 52 | 47 | 38 |
| 10.... | 52 | 50 | 35 | 35 | 38 | 58 | 83 | 422 | 252 | 51 | 41 | 35 |
| 11.... | 52 | 49 | 34 | 36 | 38 | 55 | 78 | 414 | 238 | 48 | 42 | 39 |
| 12.... | 52 | 49 | 31 | 34 | 38 | 52 | 83 | 395 | 224 | 50 | 39 | 36 |
| 13.... | 53 | 51 | 30 | 33 | 39 | 48 | 101 | 465 | 222 | 48 | 37 | 47 |
| 14.... | 53 | 47 | 30 | 34 | 39 | 52 | 126 | 485 | 230 | 52 | 35 | 47 |
| 15.... | 52 | 47 | 29 | 35 | 41 | 58 | 135 | 490 | 222 | 49 | 33 | 52 |
| 16.... | 51 | 45 | 32 | 36 | 40 | 62 | 121 | 498 | 211 | 49 | 33 | 49 |
| 17.... | 50 | 43 | 30 | 37 | 36 | 62 | 110 | 523 | 198 | 46 | 33 | 40 |
| 18.... | 48 | 43 | 28 | 37 | 36 | 64 | 119 | 523 | 182 | 45 | 40 | 86 |
| 19.... | 49 | 42 | 27 | 39 | 38 | 68 | 152 | 441 | 171 | 44 | 48 | 138 |
| 20.... | 45 | 36 | 26 | 38 | 41 | 68 | 189 | 418 | 160 | 43 | 56 | 104 |
| 21.... | 40 | 40 | 26 | 37 | 41 | 76 | 213 | 381 | 156 | 49 | 94 | 80 |
| 22.... | 37 | 38 | 26 | 36 | 42 | 82 | 219 | 363 | 158 | 45 | 58 | 84 |
| 23.... | 33 | 37 | 27 | 36 | 42 | 94 | 238 | 367 | 148 | 44 | 56 | 79 |
| 24.... | 32 | 37 | 29 | 35 | 43 | 104 | 264 | 374 | 126 | 49 | 64 | 86 |
| 25.... | 51 | 39 | 27 | 35 | 42 | 114 | 283 | 374 | 116 | 44 | 78 | 78 |
| 26.... | 66 | 44 | 27 | 35 | 45 | 122 | 302 | 399 | 104 | 53 | 66 | 79 |
| 27.... | 47 | 43 | 26 | 36 | 45 | 117 | 312 | 429 | 98 | 91 | 67 | 86 |
| 28.... | 51 | 38 | 27 | 35 | 43 | 100 | 232 | 445 | 87 | 110 | 55 | 75 |
| 29.... | 52 | 36 | 28 | 34 | 43 | 88 | 196 | 457 | 88 | 71 | 55 | 88 |
| 30.... | 51 | 33 | 29 | 34 | .... | 89 | 180 | 465 | 126 | 67 | 50 | 106 |
| 31.... | 51 | .... | 30 | 34 | .... | 95 | .... | 481 | .... | 58 | 45 | .... |
| Total | 1525 | 1350 | 915 | 1066 | 1140 | 2105 | 4446 | 12580 | 7251 | 1814 | 1582 | 1889 |
| Mean. | 49.2 | 45.0 | 29.5 | 34.4 | 39.3 | 67.9 | 148 | 406 | 242 | 58.5 | 51.0 | 63.0 |
| Max. | 66 | 54 | .... | .... | .... | 122 | 312 | 523 | 481 | 110 | 94 | 138 |
| Min. | 32 | 33 | .... | .... | .... | .... | 73 | 169 | 87 | 43 | 33 | 35 |
| Acre-ft. | 3020 | 2680 | 1810 | 2110 | 2260 | 4180 | 8820 | 24950 | 14380 | 3600 | 3140 | 3750 |

Total run-off for water year 1939-40=74,700 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Pinos Creek Near Del Norte, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|--------|------|------|------|---------|------|------|------|-------|-------|-------|
| 1.... | 11 | 13 | .... | .... | .... | .... | 20 | 70 | 58 | 20 | 10 | 5.7 |
| 2.... | 12 | 11 | .... | .... | .... | .... | 23 | 73 | 50 | 17 | 9.9 | 6.0 |
| 3.... | 12 | 11 | .... | .... | .... | .... | 26 | 71 | 59 | 15 | 8.8 | 5.0 |
| 4.... | 11 | 16 | .... | .... | .... | .... | 23 | 66 | 63 | 14 | 7.7 | 4.7 |
| 5.... | 11 | 13 | .... | .... | .... | .... | 21 | 71 | 60 | 13 | 7.4 | 4.7 |
| 6.... | 13 | 12 | .... | .... | .... | .... | 20 | 80 | 54 | 13 | 8.8 | 6.0 |
| 7.... | 26 | 26 | .... | .... | .... | .... | 18 | 71 | 51 | 12 | 12 | 6.0 |
| 8.... | 28 | 8.4 | .... | .... | .... | .... | 22 | 69 | 50 | 12 | 9.9 | 6.7 |
| 9.... | 20 | 11 | .... | .... | .... | .... | 28 | 78 | 47 | 10 | 8.1 | 7.7 |
| 10.... | 17 | 10 | .... | .... | .... | .... | 23 | 86 | 46 | 8.4 | 7.4 | 8.1 |
| 11.... | 17 | .... | .... | .... | .... | .... | 20 | 86 | 46 | 8.4 | 6.7 | 11 |
| 12.... | 16 | .... | .... | .... | .... | .... | 22 | 79 | 43 | 7.4 | 6.0 | 8.8 |
| 13.... | 17 | .... | .... | .... | .... | .... | 29 | 70 | 40 | 7.0 | 6.0 | 8.1 |
| 14.... | 18 | .... | .... | .... | .... | .... | 31 | 65 | 38 | 6.7 | 6.4 | 9.5 |
| 15.... | 21 | .... | .... | .... | .... | .... | 27 | 67 | 33 | 8.1 | 5.3 | 12 |
| 16.... | 28 | .... | .... | .... | .... | .... | 20 | 65 | 33 | 10 | 5.0 | 9.9 |
| 17.... | 22 | .... | .... | .... | .... | .... | 18 | 59 | 28 | 11 | 4.7 | 8.8 |
| 18.... | 16 | .... | .... | .... | .... | .... | 18 | 68 | 26 | 9.5 | 4.4 | 9.2 |
| 19.... | 15 | .... | .... | .... | .... | .... | 20 | 83 | 25 | 8.1 | 4.7 | 7.7 |
| 20.... | 15 | .... | .... | .... | .... | .... | 26 | 84 | 26 | 6.7 | 5.0 | 7.0 |
| 21.... | 14 | .... | .... | .... | .... | .... | 36 | 82 | 23 | 6.0 | 6.7 | 7.0 |
| 22.... | 14 | .... | .... | .... | .... | .... | 45 | 83 | 22 | 6.4 | 6.7 | 6.4 |
| 23.... | 14 | .... | .... | .... | .... | .... | 47 | 79 | 23 | 6.0 | 5.3 | 6.4 |
| 24.... | 14 | .... | .... | .... | .... | .... | 35 | 71 | 21 | 5.3 | 5.7 | 6.0 |
| 25.... | 13 | .... | .... | .... | .... | .... | 35 | 64 | 19 | 5.0 | 5.7 | 6.0 |
| 26.... | 12 | .... | .... | .... | .... | .... | 39 | 60 | 18 | 7.7 | 6.0 | 7.0 |
| 27.... | 13 | .... | .... | .... | .... | .... | 39 | 60 | 18 | 11 | 7.7 | 7.7 |
| 28.... | 13 | .... | .... | .... | .... | Mar. 30 | 50 | 60 | 19 | 12 | 8.4 | 6.0 |
| 29.... | 12 | .... | .... | .... | .... | to 31 | 63 | 60 | 18 | 12 | 8.1 | 5.7 |
| 30.... | 13 | Nov. 1 | .... | .... | .... | 11 | 65 | 58 | 20 | 11 | 6.7 | 5.3 |
| 31.... | 12 | to 10 | .... | .... | .... | 14 | .... | 55 | .... | 16 | 6.0 | .... |
| Total | 490 | 131.4 | .... | .... | .... | 25 | 909 | 2193 | 1085 | 315.7 | 217.2 | 216.1 |
| Mean... | 15.8 | 13.1 | .... | .... | .... | 12.5 | 30.3 | 70.7 | 36.2 | 10.2 | 7.01 | 7.20 |
| Max... | 28 | 26 | .... | .... | .... | 14 | 65 | 86 | 63 | 20 | 12 | 12 |
| Min... | 11 | 8.4 | .... | .... | .... | 11 | 18 | 55 | 18 | 5.0 | 4.4 | 4.7 |
| Acre-ft. | 972 | 261 | .... | .... | .... | 50 | 1800 | 4350 | 2150 | 626 | 431 | 429 |

Total run-off for period=11,069 acre-feet.

Discharge of Pinos Creek Near Del Norte, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|--------|------|------|------|------|-------|------|-------|-------|-------|-------|
| 1.... | 5.3 | 6.0 | .... | .... | .... | .... | 11 | 14 | 38 | 11 | 8.8 | 5.3 |
| 2.... | 5.3 | 6.0 | .... | .... | .... | .... | 10 | 21 | 37 | 10 | 8.1 | 5.3 |
| 3.... | 5.0 | 6.0 | .... | .... | .... | .... | 9.9 | 32 | 32 | 10 | 8.8 | 6.0 |
| 4.... | 5.0 | 6.0 | .... | .... | .... | .... | 9.9 | 42 | 30 | 11 | 8.8 | 5.3 |
| 5.... | 4.7 | 6.0 | .... | .... | .... | .... | 8.8 | 41 | 30 | 11 | 9.2 | 4.7 |
| 6.... | 4.7 | 4.7 | .... | .... | .... | .... | 8.4 | 36 | 29 | 11 | 13 | 4.7 |
| 7.... | 4.7 | .... | .... | .... | .... | .... | 8.4 | 32 | 26 | 8.8 | 12 | 5.0 |
| 8.... | 5.7 | .... | .... | .... | .... | .... | 8.1 | 33 | 23 | 8.8 | 10 | 5.0 |
| 9.... | 6.0 | .... | .... | .... | .... | .... | 9.2 | 28 | 22 | 8.1 | 9.2 | 4.2 |
| 10.... | 5.0 | .... | .... | .... | .... | .... | 10 | 34 | 20 | 7.7 | 6.7 | 5.7 |
| 11.... | 5.7 | .... | .... | .... | .... | .... | 12 | 33 | 19 | 8.4 | 6.7 | 5.7 |
| 12.... | 5.3 | .... | .... | .... | .... | .... | 11 | 32 | 18 | 8.1 | 6.7 | 5.0 |
| 13.... | 4.7 | .... | .... | .... | .... | .... | 15 | 52 | 17 | 8.8 | 6.4 | 6.3 |
| 14.... | 4.2 | .... | .... | .... | .... | .... | 20 | 44 | 16 | 8.4 | 6.4 | 5.7 |
| 15.... | 4.2 | .... | .... | .... | .... | .... | 22 | 40 | 15 | 7.7 | 6.4 | 5.0 |
| 16.... | 4.7 | .... | .... | .... | .... | .... | 16 | 43 | 14 | 8.4 | 6.7 | 4.4 |
| 17.... | 5.7 | .... | .... | .... | .... | .... | 11 | 46 | 14 | 8.1 | 6.0 | 4.7 |
| 18.... | 5.7 | .... | .... | .... | .... | .... | 12 | 49 | 12 | 8.4 | 7.4 | 9.2 |
| 19.... | 6.0 | .... | .... | .... | .... | .... | 17 | 44 | 11 | 7.7 | 9.2 | 7.7 |
| 20.... | 4.7 | .... | .... | .... | .... | .... | 22 | 44 | 11 | 9.9 | 11 | 6.7 |
| 21.... | 4.4 | .... | .... | .... | .... | .... | 26 | 38 | 11 | 12 | 9.2 | 6.0 |
| 22.... | 5.0 | .... | .... | .... | .... | .... | 25 | 38 | 11 | 9.5 | 7.7 | 6.7 |
| 23.... | 5.0 | .... | .... | .... | .... | .... | 23 | 42 | 10 | 8.4 | 7.7 | 5.7 |
| 24.... | 5.0 | .... | .... | .... | .... | .... | 22 | 41 | 9.5 | 12 | 9.2 | 5.3 |
| 25.... | 5.0 | .... | .... | .... | .... | .... | 30 | 41 | 9.9 | 8.1 | 8.8 | 4.7 |
| 26.... | 5.3 | .... | .... | .... | .... | .... | 35 | 47 | 10 | 8.8 | 7.7 | 4.7 |
| 27.... | 3.6 | .... | .... | .... | .... | .... | 35 | 50 | 11 | 12 | 7.7 | 5.3 |
| 28.... | 5.0 | .... | .... | .... | .... | .... | 24 | 47 | 10 | 9.9 | 6.4 | 4.4 |
| 29.... | 5.7 | .... | .... | .... | .... | .... | 18 | 46 | 12 | 9.9 | 7.0 | 4.4 |
| 30.... | 5.0 | Nov. 1 | .... | .... | .... | .... | 13 | 42 | 18 | 12 | 6.7 | 5.3 |
| 31.... | 5.7 | to 6 | .... | .... | .... | .... | .... | 40 | .... | 11 | 6.0 | .... |
| Total | 157.0 | 34.7 | .... | .... | .... | .... | 502.7 | 1212 | 546.4 | 294.9 | 251.6 | 164.1 |
| Mean... | 5.06 | 5.78 | .... | .... | .... | .... | 16.8 | 39.1 | 18.2 | 9.51 | 8.12 | 5.47 |
| Max... | 6.0 | 6.0 | .... | .... | .... | .... | 35 | 52 | 38 | 12 | 13 | 9.2 |
| Min... | 3.6 | 4.7 | .... | .... | .... | .... | 8.1 | 14 | 9.5 | 7.7 | 6.0 | 4.2 |
| Acre-ft. | 311 | 69 | .... | .... | .... | .... | 997 | 2400 | 1080 | 585 | 499 | 325 |

Total run-off for period=6,270 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of San Francisco Creek Near Del Norte, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | |
|----------|------|--------|------|------|------|------|------|---------|-------|-------|------|-------|------|
| 1.... | 2.6 | 1.2 | .... | .... | .... | .... | .... | 11 | 11 | 3.8 | 1.5 | 1.5 | |
| 2.... | 2.6 | 1.0 | .... | .... | .... | .... | .... | 13 | 11 | 2.8 | 1.7 | 1.2 | |
| 3.... | 2.6 | .... | .... | .... | .... | .... | .... | 11 | 11 | 2.6 | 1.5 | 1.0 | |
| 4.... | 2.3 | .... | .... | .... | .... | .... | .... | 12 | 12 | 2.3 | 1.0 | 1.0 | |
| 5.... | 2.1 | .... | .... | .... | .... | .... | .... | 13 | 12 | 2.3 | 1.7 | 1.0 | |
| 6.... | 2.1 | .... | .... | .... | .... | .... | .... | 14 | 11 | 2.3 | 1.5 | 1.0 | |
| 7.... | 3.8 | .... | .... | .... | .... | .... | .... | 13 | 9.2 | 2.3 | 1.7 | 1.0 | |
| 8.... | 3.8 | .... | .... | .... | .... | .... | .... | 13 | 7.9 | 2.3 | 1.2 | 1.0 | |
| 9.... | 2.3 | .... | .... | .... | .... | .... | .... | 14 | 7.2 | 2.1 | 1.2 | 1.5 | |
| 10.... | 2.1 | .... | .... | .... | .... | .... | .... | 17 | 7.9 | 2.1 | 1.2 | 1.5 | |
| 11.... | 2.3 | .... | .... | .... | .... | .... | .... | 17 | 7.9 | 2.1 | 1.0 | 1.9 | |
| 12.... | 2.8 | .... | .... | .... | .... | .... | .... | 13 | 7.2 | 1.7 | 1.0 | 1.5 | |
| 13.... | 2.8 | .... | .... | .... | .... | .... | .... | 13 | 7.9 | 1.7 | 1.2 | 1.5 | |
| 14.... | 2.8 | .... | .... | .... | .... | .... | .... | 13 | 6.8 | 1.7 | 1.2 | 1.5 | |
| 15.... | 2.8 | .... | .... | .... | .... | .... | .... | 12 | 6.4 | 1.9 | 1.2 | 1.5 | |
| 16.... | 3.0 | .... | .... | .... | .... | .... | .... | 11 | 6.4 | 2.3 | 1.2 | 1.5 | |
| 17.... | 3.0 | .... | .... | .... | .... | .... | .... | Apr. 19 | 9.9 | 5.5 | 2.1 | 1.0 | 1.2 |
| 18.... | 2.8 | .... | .... | .... | .... | .... | .... | to 30 | 12 | 5.1 | 1.7 | 1.2 | 1.2 |
| 19.... | 2.6 | .... | .... | .... | .... | .... | .... | 3.0 | 17 | 4.7 | 1.5 | 1.0 | 1.2 |
| 20.... | 2.3 | .... | .... | .... | .... | .... | .... | 3.4 | 15 | 4.7 | 1.5 | 1.2 | 1.2 |
| 21.... | 2.8 | .... | .... | .... | .... | .... | .... | 4.3 | 14 | 5.1 | 1.2 | 1.5 | 1.2 |
| 22.... | 2.8 | .... | .... | .... | .... | .... | .... | 4.7 | 13 | 5.5 | 1.5 | 1.2 | 1.5 |
| 23.... | 2.6 | .... | .... | .... | .... | .... | .... | 5.1 | 12 | 5.5 | 1.2 | 1.2 | 1.5 |
| 24.... | 2.6 | .... | .... | .... | .... | .... | .... | 4.7 | 11 | 4.7 | 1.0 | 1.2 | 1.5 |
| 25.... | 2.6 | .... | .... | .... | .... | .... | .... | 4.3 | 9.9 | 4.3 | 1.0 | 1.2 | 1.2 |
| 26.... | 2.6 | .... | .... | .... | .... | .... | .... | 3.8 | 7.9 | 3.8 | 1.2 | 1.2 | 1.7 |
| 27.... | 2.8 | .... | .... | .... | .... | .... | .... | 3.8 | 8.6 | 3.8 | 1.7 | 1.5 | 1.5 |
| 28.... | 2.6 | .... | .... | .... | .... | .... | .... | 5.9 | 9.2 | 3.4 | 2.1 | 1.9 | 1.5 |
| 29.... | 2.1 | .... | .... | .... | .... | .... | .... | 7.2 | 9.2 | 3.8 | 2.1 | 1.2 | 1.2 |
| 30.... | 1.7 | Nov. 1 | .... | .... | .... | .... | .... | 7.9 | 9.9 | 3.8 | 1.9 | 1.5 | 1.2 |
| 31.... | 1.5 | to 2 | .... | .... | .... | .... | .... | .... | 9.9 | .... | 2.1 | 1.5 | .... |
| Total | 80.2 | 2.2 | .... | .... | .... | .... | .... | 58.1 | 378.5 | 206.5 | 60.1 | 40.5 | 39.9 |
| Mean.. | 2.59 | 1.1 | .... | .... | .... | .... | .... | 4.84 | 12.2 | 6.88 | 1.94 | 1.31 | 1.33 |
| Max... | 3.8 | 1.2 | .... | .... | .... | .... | .... | 7.9 | 17 | 12 | 3.8 | 1.9 | 1.9 |
| Min... | 1.5 | 1.1 | .... | .... | .... | .... | .... | 3.0 | 7.9 | 3.4 | 1.0 | 1.0 | 1.0 |
| Acre-ft. | 159 | 4.4 | .... | .... | .... | .... | .... | 115 | 751 | 410 | 119 | 80 | 79 |

Total run-off for period=1,717 acre-feet.

Discharge of San Francisco Creek Near Del Norte, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|------|------|------|-------|
| 1.... | 1.2 | .... | .... | .... | .... | .... | 1.6 | 1.0 | 4.7 | 2.3 | 1.5 | 1.5 |
| 2.... | 1.0 | .... | .... | .... | .... | .... | 1.5 | 2.6 | 5.1 | 2.1 | 1.5 | 1.5 |
| 3.... | 0.8 | .... | .... | .... | .... | .... | 1.2 | 6.4 | 4.3 | 2.1 | 1.0 | 1.5 |
| 4.... | 0.8 | .... | .... | .... | .... | .... | 1.2 | 5.9 | 3.8 | 1.9 | 0.8 | 1.2 |
| 5.... | 0.7 | .... | .... | .... | .... | .... | 1.0 | 3.8 | 3.8 | 1.9 | 1.0 | 1.0 |
| 6.... | 0.7 | .... | .... | .... | .... | .... | 1.0 | 3.0 | 3.4 | 1.7 | 1.7 | 1.5 |
| 7.... | 0.7 | .... | .... | .... | .... | .... | 1.1 | 3.4 | 3.0 | 1.7 | 1.7 | 1.2 |
| 8.... | 0.8 | .... | .... | .... | .... | .... | 1.1 | 3.0 | 3.4 | 1.7 | 1.2 | 0.7 |
| 9.... | 0.8 | .... | .... | .... | .... | .... | 1.2 | 2.8 | 3.4 | 1.7 | 1.2 | 0.7 |
| 10.... | 0.8 | .... | .... | .... | .... | .... | 1.0 | 3.4 | 3.0 | 1.5 | 1.2 | 1.0 |
| 11.... | 0.8 | .... | .... | .... | .... | .... | 1.5 | 3.4 | 2.8 | 1.5 | 1.2 | 1.2 |
| 12.... | 0.7 | .... | .... | .... | .... | .... | 1.9 | 3.0 | 2.8 | 1.5 | 1.0 | 1.0 |
| 13.... | 0.7 | .... | .... | .... | .... | .... | 1.2 | 3.8 | 2.8 | 1.2 | 1.0 | 1.2 |
| 14.... | 0.7 | .... | .... | .... | .... | .... | 1.5 | 3.8 | 2.8 | 1.2 | 0.8 | 0.8 |
| 15.... | 0.7 | .... | .... | .... | .... | .... | 1.7 | 3.8 | 2.6 | 1.2 | 0.8 | 0.8 |
| 16.... | 0.7 | .... | .... | .... | .... | .... | 1.2 | 4.0 | 2.6 | 1.7 | 1.0 | 0.7 |
| 17.... | 0.8 | .... | .... | .... | .... | .... | 1.0 | 4.2 | 2.6 | 1.7 | 1.0 | 0.8 |
| 18.... | 0.8 | .... | .... | .... | .... | .... | 0.7 | 4.6 | 2.6 | 1.9 | 2.6 | 1.2 |
| 19.... | 0.8 | .... | .... | .... | .... | .... | 0.7 | 3.8 | 2.3 | 1.7 | 2.8 | 1.0 |
| 20.... | 0.8 | .... | .... | .... | .... | .... | 0.8 | 3.4 | 2.1 | 1.9 | 2.8 | 1.0 |
| 21.... | 0.8 | .... | .... | .... | .... | .... | 0.8 | 3.8 | 2.1 | 1.9 | 2.3 | 1.0 |
| 22.... | 0.8 | .... | .... | .... | .... | .... | 0.8 | 4.3 | 2.1 | 1.9 | 1.9 | 1.5 |
| 23.... | 0.8 | .... | .... | .... | .... | .... | 1.0 | 5.1 | 1.9 | 1.5 | 1.7 | 1.7 |
| 24.... | 0.7 | .... | .... | .... | .... | .... | 1.0 | 5.9 | 1.9 | 1.5 | 2.1 | 1.7 |
| 25.... | 0.8 | .... | .... | .... | .... | .... | 1.5 | 6.8 | 1.9 | 1.5 | 1.9 | 1.9 |
| 26.... | 1.0 | .... | .... | .... | .... | .... | 2.1 | 7.9 | 1.9 | 1.5 | 1.5 | 1.9 |
| 27.... | 1.0 | .... | .... | .... | .... | .... | 2.3 | 7.9 | 1.9 | 1.5 | 1.5 | 1.9 |
| 28.... | 1.0 | .... | .... | .... | .... | .... | 1.5 | 7.9 | 2.1 | 1.5 | 1.5 | 1.7 |
| 29.... | 0.8 | .... | .... | .... | .... | .... | 1.0 | 5.9 | 2.6 | 1.2 | 1.5 | 1.7 |
| 30.... | 1.7 | .... | .... | .... | .... | .... | 0.7 | 5.1 | 2.8 | 1.5 | 1.5 | 1.9 |
| 31.... | 0.7 | .... | .... | .... | .... | .... | .... | 4.7 | .... | 1.2 | 1.7 | .... |
| Total | 25.9 | .... | .... | .... | .... | .... | 36.8 | 138.4 | 85.1 | 50.8 | 46.9 | 38.4 |
| Mean.. | 0.84 | .... | .... | .... | .... | .... | 1.23 | 4.46 | 2.84 | 1.64 | 1.51 | 1.28 |
| Max... | 1.7 | .... | .... | .... | .... | .... | 2.3 | 7.9 | 5.1 | 2.3 | 2.8 | 1.9 |
| Min... | 0.7 | .... | .... | .... | .... | .... | 0.7 | 1.0 | 1.9 | 1.2 | 0.8 | 0.7 |
| Acre-ft. | 51 | .... | .... | .... | .... | .... | 73 | 275 | 169 | 101 | 93 | 76 |

Total run-off for period=838 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rock Creek Near Monte Vista, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|---------|-------|------|-------|-------|-------|-------|
| 1.... | 5.9 | ..... | ..... | ..... | ..... | ..... | 15 | 36 | 22 | 9.6 | 4.2 | 4.0 |
| 2.... | 5.9 | ..... | ..... | ..... | ..... | ..... | 17 | 38 | 22 | 8.3 | 6.0 | 3.8 |
| 3.... | 6.7 | ..... | ..... | ..... | ..... | ..... | 20 | 36 | 20 | 7.3 | 5.7 | 3.4 |
| 4.... | 6.4 | ..... | ..... | ..... | ..... | ..... | 17 | 38 | 22 | 7.0 | 4.0 | 3.1 |
| 5.... | 5.9 | ..... | ..... | ..... | ..... | ..... | 17 | 37 | 22 | 6.5 | 4.2 | 3.4 |
| 6.... | 5.9 | ..... | ..... | ..... | ..... | ..... | 16 | 40 | 20 | 6.2 | 6.2 | 4.0 |
| 7.... | 14 | ..... | ..... | ..... | ..... | ..... | 15 | 37 | 19 | 6.0 | 7.6 | 3.6 |
| 8.... | 16 | ..... | ..... | ..... | ..... | ..... | 20 | 37 | 18 | 6.0 | 5.7 | 3.8 |
| 9.... | 11 | ..... | ..... | ..... | ..... | ..... | 22 | 40 | 17 | 6.0 | 4.4 | 4.7 |
| 10.... | 10 | ..... | ..... | ..... | ..... | ..... | 18 | 42 | 16 | 5.4 | 4.4 | 5.2 |
| 11.... | 11 | ..... | ..... | ..... | ..... | ..... | 16 | 39 | 16 | 5.4 | 4.7 | 5.7 |
| 12.... | 11 | ..... | ..... | ..... | ..... | ..... | 17 | 35 | 15 | 5.2 | 4.4 | 5.2 |
| 13.... | 12 | ..... | ..... | ..... | ..... | ..... | 20 | 33 | 14 | 5.2 | 4.2 | 4.4 |
| 14.... | 12 | ..... | ..... | ..... | ..... | ..... | 18 | 32 | 13 | 5.4 | 4.2 | 4.2 |
| 15.... | 13 | ..... | ..... | ..... | ..... | ..... | 15 | 31 | 12 | 6.5 | 4.4 | 4.7 |
| 16.... | 13 | ..... | ..... | ..... | ..... | ..... | 14 | 29 | 12 | 8.0 | 4.0 | 4.7 |
| 17.... | 12 | ..... | ..... | ..... | ..... | ..... | 12 | 26 | 12 | 6.7 | 4.4 | 4.4 |
| 18.... | 11 | ..... | ..... | ..... | ..... | ..... | 12 | 27 | 11 | 5.4 | 4.0 | 4.4 |
| 19.... | 11 | ..... | ..... | ..... | ..... | ..... | 13 | 31 | 10 | 4.9 | 4.0 | 4.2 |
| 20.... | 9.8 | ..... | ..... | ..... | ..... | ..... | 15 | 38 | 9.9 | 4.7 | 4.5 | 4.2 |
| 21.... | 9.4 | ..... | ..... | ..... | ..... | ..... | 18 | 38 | 9.2 | 5.2 | 5.4 | 4.0 |
| 22.... | 9.4 | ..... | ..... | ..... | ..... | ..... | 24 | 36 | 8.3 | 5.7 | 4.7 | 4.2 |
| 23.... | 8.8 | ..... | ..... | ..... | ..... | ..... | 26 | 29 | 8.9 | 4.4 | 4.0 | 4.4 |
| 24.... | 7.9 | ..... | ..... | ..... | ..... | ..... | 24 | 25 | 8.6 | 4.0 | 4.2 | 4.2 |
| 25.... | 7.5 | ..... | ..... | ..... | ..... | ..... | 22 | 22 | 7.6 | 3.6 | 4.0 | 4.2 |
| 26.... | 7.5 | ..... | ..... | ..... | ..... | ..... | 24 | 22 | 7.3 | 3.6 | 4.0 | 5.2 |
| 27.... | 7.5 | ..... | ..... | ..... | ..... | ..... | 24 | 22 | 7.6 | 4.2 | 4.7 | 5.4 |
| 28.... | 7.0 | ..... | ..... | ..... | ..... | Mar. 30 | 28 | 20 | 7.3 | 6.0 | 5.7 | 4.7 |
| 29.... | 7.0 | ..... | ..... | ..... | ..... | to 31 | 34 | 22 | 8.0 | 5.4 | 4.4 | 4.4 |
| 30.... | 6.5 | ..... | ..... | ..... | ..... | 9.2 | 34 | 20 | 10 | 4.9 | 4.2 | 4.2 |
| 31.... | 6.5 | ..... | ..... | ..... | ..... | 11 | ..... | 20 | ..... | 5.7 | 4.2 | ..... |
| Total | 288.5 | ..... | ..... | ..... | ..... | 20.2 | 587 | 978 | 405.7 | 178.4 | 144.7 | 130.0 |
| Mean | 9.31 | ..... | ..... | ..... | ..... | 10.1 | 19.6 | 31.5 | 13.5 | 5.75 | 4.67 | 4.33 |
| Max... | 16 | ..... | ..... | ..... | ..... | 11 | 34 | 42 | 22 | 9.6 | 7.6 | 5.7 |
| Min... | 5.9 | ..... | ..... | ..... | ..... | 9.2 | 12 | 20 | 7.3 | 3.6 | 4.0 | 3.1 |
| Acre-ft. | 572 | ..... | ..... | ..... | ..... | 40 | 1160 | 1940 | 805 | 354 | 287 | 258 |

Total run-off for period=5,416 acre-feet.

Discharge of Rock Creek Near Monte Vista, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|--------|-------|-------|-------|---------|-------|-------|-------|-------|------|-------|
| 1.... | 4.2 | 2.9 | ..... | ..... | ..... | ..... | 6.3 | 7.0 | 15 | 5.8 | 3.4 | 2.6 |
| 2.... | 3.8 | 2.9 | ..... | ..... | ..... | ..... | 6.1 | 12 | 14 | 5.1 | 3.2 | 2.5 |
| 3.... | 3.6 | 3.1 | ..... | ..... | ..... | ..... | 5.1 | 17 | 13 | 4.9 | 3.4 | 2.6 |
| 4.... | 3.4 | 2.9 | ..... | ..... | ..... | ..... | 5.2 | 14 | 12 | 5.1 | 3.0 | 2.5 |
| 5.... | 3.4 | 3.1 | ..... | ..... | ..... | ..... | 4.7 | 10 | 12 | 5.6 | 3.0 | 2.5 |
| 6.... | 3.4 | 3.1 | ..... | ..... | ..... | ..... | 4.7 | 9.5 | 11 | 5.3 | 3.4 | 2.1 |
| 7.... | 3.4 | 3.6 | ..... | ..... | ..... | ..... | 4.9 | 10 | 10 | 4.9 | 3.4 | 2.1 |
| 8.... | 3.6 | 4.0 | ..... | ..... | ..... | ..... | 4.9 | 10 | 9.5 | 4.7 | 3.0 | 2.1 |
| 9.... | 3.8 | 4.7 | ..... | ..... | ..... | ..... | 5.6 | 8.4 | 9.2 | 4.7 | 2.8 | 2.1 |
| 10.... | 4.0 | 4.9 | ..... | ..... | ..... | ..... | 5.4 | 11 | 8.5 | 4.5 | 2.5 | 2.6 |
| 11.... | 4.0 | ..... | ..... | ..... | ..... | ..... | 5.8 | 9.8 | 8.2 | 4.3 | 2.5 | 3.2 |
| 12.... | 4.0 | ..... | ..... | ..... | ..... | ..... | 6.2 | 10 | 7.8 | 4.3 | 2.5 | 2.8 |
| 13.... | 4.2 | ..... | ..... | ..... | ..... | ..... | 6.5 | 15 | 7.8 | 4.0 | 2.3 | 3.4 |
| 14.... | 4.0 | ..... | ..... | ..... | ..... | ..... | 8.0 | 13 | 7.8 | 4.3 | 2.1 | 3.2 |
| 15.... | 4.0 | ..... | ..... | ..... | ..... | ..... | 9.2 | 12 | 7.3 | 3.6 | 2.1 | 3.0 |
| 16.... | 4.0 | ..... | ..... | ..... | ..... | ..... | 7.5 | 13 | 7.0 | 4.7 | 1.9 | 2.6 |
| 17.... | 4.0 | ..... | ..... | ..... | ..... | ..... | 6.8 | 15 | 6.8 | 4.0 | 2.3 | 2.6 |
| 18.... | 3.8 | ..... | ..... | ..... | ..... | ..... | 7.0 | 17 | 6.3 | 4.5 | 2.1 | 3.8 |
| 19.... | 4.0 | ..... | ..... | ..... | ..... | ..... | 8.2 | 15 | 6.8 | 4.0 | 2.8 | 3.2 |
| 20.... | 3.8 | ..... | ..... | ..... | ..... | ..... | 9.5 | 16 | 6.3 | 4.5 | 4.3 | 3.2 |
| 21.... | 3.6 | ..... | ..... | ..... | ..... | ..... | 10 | 16 | 6.1 | 5.8 | 3.2 | 2.8 |
| 22.... | 3.8 | ..... | ..... | ..... | ..... | ..... | 11 | 16 | 5.8 | 4.3 | 3.0 | 3.4 |
| 23.... | 3.8 | ..... | ..... | ..... | ..... | ..... | 11 | 20 | 5.6 | 4.3 | 3.6 | 3.4 |
| 24.... | 3.4 | ..... | ..... | ..... | ..... | ..... | 9.2 | 19 | 5.8 | 4.5 | 4.3 | 3.2 |
| 25.... | 3.4 | ..... | ..... | ..... | ..... | ..... | 11 | 19 | 5.6 | 3.6 | 3.2 | 3.2 |
| 26.... | 3.8 | ..... | ..... | ..... | ..... | ..... | 15 | 22 | 5.3 | 3.6 | 3.0 | 3.2 |
| 27.... | 2.7 | ..... | ..... | ..... | ..... | Mar. 29 | 12 | 20 | 5.8 | 4.5 | 3.0 | 3.4 |
| 28.... | 2.9 | ..... | ..... | ..... | ..... | to 31 | 8.0 | 19 | 5.3 | 4.3 | 2.8 | 3.2 |
| 29.... | 3.3 | ..... | ..... | ..... | ..... | 4.9 | 7.3 | 18 | 6.5 | 4.5 | 3.0 | 3.0 |
| 30.... | 2.9 | Nov. 1 | ..... | ..... | ..... | 5.6 | 7.0 | 18 | 8.8 | 4.3 | 2.8 | 3.2 |
| 31.... | 3.1 | to 10 | ..... | ..... | ..... | 6.1 | ..... | 16 | ..... | 3.8 | 2.8 | ..... |
| Total | 113.1 | 35.2 | ..... | ..... | ..... | 16.6 | 229.1 | 447.7 | 246.9 | 140.3 | 90.7 | 86.7 |
| Mean | 3.65 | 3.52 | ..... | ..... | ..... | 5.53 | 7.64 | 14.4 | 8.23 | 4.53 | 2.93 | 2.89 |
| Max... | 4.2 | 4.9 | ..... | ..... | ..... | 6.1 | 15 | 22 | 15 | 5.8 | 4.3 | 3.8 |
| Min... | 2.7 | 2.9 | ..... | ..... | ..... | 5.6 | 4.7 | 7.0 | 5.3 | 3.6 | 1.9 | 2.1 |
| Acre-ft. | 224 | 70 | ..... | ..... | ..... | 23 | 454 | 888 | 490 | 278 | 180 | 172 |

Total run-off for period=2,780 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Alamosa River Above Terrace Reservoir, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|--------|------|------|------|---------|------|-------|-------|------|------|-------|
| 1.... | 40 | 41 | .... | .... | .... | .... | 50 | 336 | 363 | 77 | 54 | 24 |
| 2.... | 39 | 40 | .... | .... | .... | .... | 68 | 372 | 368 | 70 | 49 | 24 |
| 3.... | 39 | 38 | .... | .... | .... | .... | 75 | 350 | 390 | 69 | 45 | 22 |
| 4.... | 35 | 40 | .... | .... | .... | .... | 79 | 341 | 461 | 68 | 39 | 20 |
| 5.... | 37 | 43 | .... | .... | .... | .... | 68 | 368 | 430 | 64 | 38 | 21 |
| 6.... | 40 | 37 | .... | .... | .... | .... | 70 | 420 | 341 | 62 | 45 | 25 |
| 7.... | 68 | 28 | .... | .... | .... | .... | 60 | 354 | 290 | 54 | 53 | 25 |
| 8.... | 86 | .... | .... | .... | .... | .... | 74 | 363 | 262 | 53 | 42 | 32 |
| 9.... | 68 | .... | .... | .... | .... | .... | 97 | 430 | 262 | 53 | 35 | 45 |
| 10.... | 62 | .... | .... | .... | .... | .... | 95 | 493 | 302 | 49 | 32 | 50 |
| 11.... | 58 | .... | .... | .... | .... | .... | 75 | 516 | 298 | 48 | 30 | 74 |
| 12.... | 54 | .... | .... | .... | .... | .... | 75 | 435 | 278 | 44 | 29 | 66 |
| 13.... | 60 | .... | .... | .... | .... | .... | 95 | 368 | 262 | 41 | 27 | 62 |
| 14.... | 69 | .... | .... | .... | .... | .... | 107 | 358 | 254 | 40 | 27 | 89 |
| 15.... | 86 | .... | .... | .... | .... | .... | 86 | 354 | 203 | 40 | 25 | 120 |
| 16.... | 132 | .... | .... | .... | .... | .... | 72 | 336 | 180 | 44 | 25 | 87 |
| 17.... | 107 | .... | .... | .... | .... | .... | 64 | 266 | 162 | 41 | 24 | 74 |
| 18.... | 82 | .... | .... | .... | .... | .... | 63 | 332 | 140 | 38 | 24 | 63 |
| 19.... | 74 | .... | .... | .... | .... | .... | 75 | 493 | 120 | 35 | 24 | 54 |
| 20.... | 64 | .... | .... | .... | .... | .... | 95 | 516 | 114 | 32 | 25 | 49 |
| 21.... | 62 | .... | .... | .... | .... | .... | 130 | 493 | 105 | 31 | 29 | 43 |
| 22.... | 62 | .... | .... | .... | .... | Mar. 24 | 165 | 504 | 105 | 31 | 27 | 41 |
| 23.... | 57 | .... | .... | .... | .... | to 31 | 174 | 472 | 118 | 30 | 25 | 39 |
| 24.... | 53 | .... | .... | .... | .... | 64 | 143 | 400 | 116 | 28 | 24 | 35 |
| 25.... | 52 | .... | .... | .... | .... | 49 | 135 | 324 | 105 | 28 | 25 | 35 |
| 26.... | 49 | .... | .... | .... | .... | 50 | 137 | 286 | 103 | 30 | 29 | 41 |
| 27.... | 48 | .... | .... | .... | .... | 48 | 148 | 332 | 99 | 38 | 28 | 48 |
| 28.... | 47 | .... | .... | .... | .... | 36 | 192 | 341 | 89 | 49 | 35 | 39 |
| 29.... | 43 | .... | .... | .... | .... | 35 | 270 | 341 | 84 | 58 | 34 | 37 |
| 30.... | 45 | Nov. 1 | .... | .... | .... | 32 | 290 | 341 | 82 | 64 | 29 | 33 |
| 31.... | 42 | to 7 | .... | .... | .... | 37 | .... | 315 | .... | 80 | 27 | .... |
| Total | 1860 | 267 | .... | .... | .... | 351 | 3327 | 11950 | 6486 | 1489 | 1004 | 1417 |
| Mean.. | 60.0 | 38.1 | .... | .... | .... | 43.9 | 111 | 385 | 216 | 48.0 | 32.4 | 47.2 |
| Max... | 132 | 43 | .... | .... | .... | 64 | 290 | 516 | 461 | 80 | 54 | 120 |
| Min... | 35 | 28 | .... | .... | .... | 32 | 50 | 266 | 82 | 28 | 24 | 20 |
| Acres-ft. | 3690 | 530 | .... | .... | .... | 696 | 6600 | 23700 | 12860 | 2950 | 1990 | 2810 |

Total run-off for period=55,826 acre-feet.

Discharge of Alamosa River Above Terrace Reservoir for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|--------|------|------|------|---------|------|-------|------|------|------|-------|
| 1.... | 31 | 20 | .... | .... | .... | .... | 43 | 82 | 332 | 82 | 26 | 24 |
| 2.... | 30 | 21 | .... | .... | .... | .... | 41 | 132 | 302 | 72 | 23 | 22 |
| 3.... | 28 | 20 | .... | .... | .... | .... | 36 | 251 | 270 | 63 | 22 | 23 |
| 4.... | 27 | 20 | .... | .... | .... | .... | 34 | 358 | 251 | 58 | 20 | 22 |
| 5.... | 25 | 21 | .... | .... | .... | .... | 35 | 358 | 232 | 57 | 21 | 22 |
| 6.... | 25 | 22 | .... | .... | .... | .... | 33 | 345 | 214 | 63 | 25 | 19 |
| 7.... | 25 | .... | .... | .... | .... | .... | 32 | 345 | 200 | 53 | 23 | 19 |
| 8.... | 28 | .... | .... | .... | .... | .... | 32 | 311 | 186 | 49 | 25 | 22 |
| 9.... | 28 | .... | .... | .... | .... | .... | 33 | 274 | 159 | 45 | 22 | 18 |
| 10.... | 28 | .... | .... | .... | .... | .... | 35 | 332 | 135 | 45 | 20 | 18 |
| 11.... | 28 | .... | .... | .... | .... | .... | 34 | 311 | 127 | 43 | 20 | 20 |
| 12.... | 28 | .... | .... | .... | .... | .... | 36 | 319 | 123 | 42 | 18 | 18 |
| 13.... | 28 | .... | .... | .... | .... | .... | 45 | 372 | 123 | 43 | 16 | 25 |
| 14.... | 28 | .... | .... | .... | .... | .... | 72 | 372 | 127 | 42 | 16 | 30 |
| 15.... | 25 | .... | .... | .... | .... | .... | 103 | 410 | 125 | 39 | 16 | 25 |
| 16.... | 25 | .... | .... | .... | .... | .... | 91 | 420 | 114 | 41 | 16 | 21 |
| 17.... | 24 | .... | .... | .... | .... | Mar. 18 | 75 | 386 | 109 | 36 | 17 | 20 |
| 18.... | 24 | .... | .... | .... | .... | to 31 | 18 | 69 | 324 | 107 | 36 | 49 |
| 19.... | 24 | .... | .... | .... | .... | 20 | 86 | 278 | 99 | 32 | 18 | 62 |
| 20.... | 22 | .... | .... | .... | .... | 24 | 114 | 290 | 95 | 32 | 38 | 49 |
| 21.... | 21 | .... | .... | .... | .... | 29 | 156 | 258 | 95 | 33 | 40 | 42 |
| 22.... | 21 | .... | .... | .... | .... | 34 | 183 | 251 | 89 | 32 | 33 | 38 |
| 23.... | 20 | .... | .... | .... | .... | 41 | 232 | 282 | 86 | 28 | 32 | 40 |
| 24.... | 20 | .... | .... | .... | .... | 48 | 251 | 306 | 86 | 34 | 40 | 38 |
| 25.... | 21 | .... | .... | .... | .... | 60 | 235 | 294 | 91 | 28 | 42 | 36 |
| 26.... | 23 | .... | .... | .... | .... | 70 | 251 | 328 | 86 | 28 | 34 | 36 |
| 27.... | 16 | .... | .... | .... | .... | 75 | 251 | 358 | 82 | 42 | 34 | 42 |
| 28.... | 17 | .... | .... | .... | .... | 64 | 132 | 368 | 77 | 34 | 29 | 37 |
| 29.... | 20 | .... | .... | .... | .... | 49 | 101 | 363 | 80 | 32 | 28 | 37 |
| 30.... | 18 | Nov. 1 | .... | .... | .... | 42 | 84 | 358 | 103 | 33 | 28 | 40 |
| 31.... | 20 | to 6 | .... | .... | .... | 43 | .... | 358 | .... | 32 | 25 | .... |
| Total | 748 | 124 | .... | .... | .... | 617 | 2955 | 9794 | 4305 | 1329 | 788 | 914 |
| Mean.. | 24.1 | 20.7 | .... | .... | .... | 44.1 | 98.5 | 316 | 144 | 42.9 | 25.4 | 30.5 |
| Max... | 31 | 22 | .... | .... | .... | 75 | 251 | 420 | 332 | 82 | 42 | 62 |
| Min... | 16 | 20 | .... | .... | .... | 18 | 32 | 82 | 77 | 28 | 16 | 18 |
| Acres-ft. | 1480 | 246 | .... | .... | .... | 1220 | 5860 | 19430 | 8540 | 2640 | 1560 | 1810 |

Total run-off for period=42,790 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Alamosa Creek Below Terrace Reservoir, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 43 | 54 | .... | .... | .... | 10 | 41 | 284 | 320 | 110 | 83 | 63 |
| 2.... | 43 | 61 | .... | .... | .... | 10 | 41 | 316 | 320 | 110 | 68 | 63 |
| 3.... | 40 | 61 | .... | .... | .... | 10 | 41 | 351 | 320 | 110 | 58 | 61 |
| 4.... | 32 | 61 | .... | .... | .... | 10 | 41 | 344 | 320 | 112 | 63 | 55 |
| 5.... | 33 | 61 | .... | .... | .... | 10 | 41 | 344 | 380 | 112 | 64 | 52 |
| 6.... | 34 | 61 | .... | .... | .... | 10 | 41 | 369 | 403 | 110 | 63 | 44 |
| 7.... | 37 | 58 | .... | .... | .... | 10 | 41 | 399 | 362 | 110 | 64 | 30 |
| 8.... | 35 | 35 | .... | .... | .... | 10 | 41 | 399 | 313 | 102 | 69 | 24 |
| 9.... | 35 | 21 | .... | .... | .... | 10 | 54 | 395 | 300 | 98 | 71 | 31 |
| 10.... | 35 | 14 | .... | .... | .... | 10 | 68 | 442 | 300 | 98 | 71 | 39 |
| 11.... | 37 | 14 | .... | .... | .... | 10 | 68 | 527 | 300 | 96 | 64 | 43 |
| 12.... | 37 | 14 | .... | .... | .... | 10 | 96 | 570 | 300 | 94 | 60 | 60 |
| 13.... | 37 | 14 | .... | .... | .... | 10 | 128 | 560 | 300 | 94 | 60 | 74 |
| 14.... | 37 | 15 | .... | .... | .... | 10 | 126 | 430 | 296 | 90 | 54 | 72 |
| 15.... | 39 | 21 | .... | .... | .... | 10 | 119 | 365 | 284 | 90 | 54 | 106 |
| 16.... | 39 | 29 | .... | .... | .... | 10 | 112 | 347 | 258 | 79 | 54 | 140 |
| 17.... | 40 | 29 | .... | .... | .... | 10 | 114 | 320 | 222 | 78 | 55 | 137 |
| 18.... | 40 | 28 | .... | .... | .... | 10 | 117 | 320 | 207 | 78 | 60 | 137 |
| 19.... | 40 | 28 | .... | .... | .... | 10 | 112 | 320 | 191 | 76 | 61 | 98 |
| 20.... | 40 | 19 | .... | .... | .... | 10 | 112 | 406 | 180 | 74 | 61 | 72 |
| 21.... | 40 | 13 | .... | .... | .... | 10 | 112 | 472 | 159 | 74 | 61 | 69 |
| 22.... | 41 | 13 | .... | .... | .... | 10 | 114 | 472 | 152 | 64 | 61 | 34 |
| 23.... | 41 | 13 | .... | .... | .... | 10 | 140 | 467 | 135 | 57 | 60 | 40 |
| 24.... | 41 | 12 | .... | .... | .... | 10 | 154 | 463 | 126 | 55 | 61 | 52 |
| 25.... | 41 | 10 | .... | .... | .... | 11 | 154 | 369 | 124 | 54 | 64 | 50 |
| 26.... | 41 | 10 | .... | .... | .... | 12 | 154 | 320 | 119 | 54 | 66 | 49 |
| 27.... | 41 | 10 | .... | .... | .... | 10 | 154 | 320 | 119 | 54 | 63 | 50 |
| 28.... | 41 | 10 | .... | .... | .... | 24 | 154 | 320 | 117 | 55 | 64 | 52 |
| 29.... | 41 | 10 | .... | .... | .... | 40 | 199 | 320 | 117 | 55 | 64 | 52 |
| 30.... | 43 | 10 | .... | .... | .... | 40 | 255 | 320 | 119 | 61 | 64 | 50 |
| 31.... | 43 | .... | .... | .... | .... | 41 | .... | 320 | .... | 78 | 63 | .... |
| Total | 1207 | 809 | 310 | 310 | 280 | 418 | 3144 | 11971 | 7163 | 2582 | 1948 | 1899 |
| Mean. | 39.0 | 27.0 | 10 | 10 | 10 | 13.5 | 105 | 386 | 239 | 83.3 | 62.8 | 63.3 |
| Max. | 43 | 61 | .... | .... | .... | 41 | 255 | 570 | 403 | 112 | 83 | 140 |
| Min. | 32 | 10 | .... | .... | .... | 10 | 41 | 284 | 117 | 54 | 54 | 24 |
| Acre-ft. | 2390 | 1600 | 615 | 615 | 555 | 829 | 6240 | 23740 | 14210 | 5120 | 3860 | 3770 |

Total run-off for water year 1938-39=63,540 acre-feet.

Discharge of Alamosa River Below Terrace Reservoir, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|------|------|------|-------|
| 1.... | 48 | 20 | 17 | 4 | 4 | 4 | 64 | 121 | 347 | 79 | 39 | 29 |
| 2.... | 45 | 20 | 17 | 4 | 4 | 4 | 63 | 110 | 326 | 81 | 39 | 25 |
| 3.... | 45 | 20 | 15 | 4 | 4 | 4 | 63 | 142 | 293 | 78 | 39 | 25 |
| 4.... | 44 | 20 | 17 | 4 | 4 | 4 | 61 | 252 | 262 | 64 | 39 | 26 |
| 5.... | 41 | 20 | 17 | 4 | 4 | 4 | 61 | 354 | 255 | 66 | 43 | 26 |
| 6.... | 38 | 20 | 17 | 4 | 4 | 4 | 52 | 376 | 237 | 69 | 45 | 25 |
| 7.... | 37 | 20 | 17 | 4 | 4 | 4 | 46 | 340 | 210 | 58 | 45 | 20 |
| 8.... | 37 | 20 | 17 | 4 | 4 | 4 | 38 | 320 | 199 | 58 | 48 | 17 |
| 9.... | 37 | 19 | 17 | 4 | 4 | 4 | 30 | 316 | 199 | 61 | 45 | 18 |
| 10.... | 33 | 19 | 17 | 4 | 4 | 4 | 30 | 313 | 172 | 58 | 34 | 19 |
| 11.... | 30 | 17 | 17 | 4 | 4 | 4 | 30 | 313 | 142 | 54 | 20 | 19 |
| 12.... | 29 | 17 | 15 | 4 | 4 | 4 | 31 | 313 | 133 | 53 | 20 | 19 |
| 13.... | 28 | 17 | 10 | 4 | 4 | 4 | 32 | 313 | 149 | 50 | 20 | 20 |
| 14.... | 28 | 17 | 3 | 4 | 4 | 4 | 33 | 340 | 157 | 50 | 20 | 25 |
| 15.... | 28 | 17 | 3 | 4 | 4 | 4 | 33 | 362 | 152 | 54 | 20 | 32 |
| 16.... | 28 | 16 | 3 | 4 | 4 | 4 | 46 | 387 | 133 | 57 | 19 | 32 |
| 17.... | 28 | 15 | 3 | 4 | 4 | 4 | 64 | 403 | 128 | 57 | 17 | 31 |
| 18.... | 29 | 13 | 3 | 4 | 4 | 6 | 66 | 337 | 128 | 50 | 18 | 32 |
| 19.... | 29 | 13 | 3 | 4 | 4 | 20 | 85 | 287 | 128 | 48 | 18 | 39 |
| 20.... | 29 | 13 | 3 | 4 | 4 | 23 | 106 | 287 | 140 | 48 | 25 | 60 |
| 21.... | 28 | 13 | 3 | 4 | 4 | 30 | 117 | 287 | 145 | 49 | 46 | 72 |
| 22.... | 29 | 14 | 3 | 4 | 4 | 32 | 175 | 240 | 126 | 49 | 55 | 61 |
| 23.... | 29 | 14 | 3 | 4 | 4 | 39 | 243 | 219 | 112 | 49 | 53 | 52 |
| 24.... | 29 | 14 | 3 | 4 | 4 | 39 | 277 | 255 | 102 | 49 | 53 | 52 |
| 25.... | 28 | 14 | 3 | 4 | 4 | 52 | 277 | 287 | 90 | 60 | 52 | 50 |
| 26.... | 25 | 15 | 3 | 4 | 4 | 64 | 274 | 287 | 88 | 60 | 52 | 50 |
| 27.... | 22 | 17 | 3 | 4 | 4 | 64 | 296 | 287 | 87 | 50 | 52 | 50 |
| 28.... | 21 | 17 | 3 | 4 | 4 | 64 | 306 | 290 | 78 | 46 | 40 | 46 |
| 29.... | 18 | 17 | 3 | 4 | 4 | 64 | 191 | 337 | 69 | 45 | 20 | 43 |
| 30.... | 18 | 17 | 3 | 4 | .... | 64 | 137 | 347 | 68 | 45 | 40 | 43 |
| 31.... | 20 | .... | 3 | 4 | .... | 63 | .... | 347 | .... | 43 | 37 | .... |
| Total | 958 | 595 | 264 | 124 | 116 | 692 | 3327 | 9169 | 4855 | 1738 | 1113 | 1058 |
| Mean. | 30.9 | 16.8 | 8.5 | 4 | 4 | 22.3 | 111 | 296 | 162 | 56.1 | 35.9 | 35.3 |
| Max. | 48 | 20 | 17 | 4 | 4 | 64 | 306 | 403 | 347 | 81 | 55 | 72 |
| Min. | 18 | 13 | 3 | 4 | 4 | 4 | 30 | 110 | 68 | 43 | 17 | 17 |
| Acre-ft. | 1900 | 1000 | 524 | 246 | 230 | 1370 | 6600 | 18190 | 9630 | 3450 | 2210 | 2100 |

Total run-off for water year 1939-40=47,450 acre feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of La Jara Creek (Gallegos Ranch) Near Capulin, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|--------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| 1.... | 8.9 | 10 | ..... | ..... | ..... | ..... | 48 | 53 | 14 | 35 | 9.5 | 8.8 |
| 2.... | 9.2 | 10 | ..... | ..... | ..... | ..... | 65 | 60 | 13 | 33 | 10 | 8.2 |
| 3.... | 9.8 | 10 | ..... | ..... | ..... | ..... | 70 | 45 | 13 | 33 | 10 | 7.6 |
| 4.... | 9.5 | ..... | ..... | ..... | ..... | ..... | 72 | 44 | 13 | 32 | 9.2 | 7.6 |
| 5.... | 9.8 | ..... | ..... | ..... | ..... | ..... | 60 | 40 | 12 | 32 | 8.5 | 7.6 |
| 6.... | 9.8 | ..... | ..... | ..... | ..... | ..... | 60 | 38 | 12 | 33 | 9.5 | 8.2 |
| 7.... | 13 | ..... | ..... | ..... | ..... | ..... | 50 | 32 | 12 | 33 | 12 | 7.9 |
| 8.... | 26 | ..... | ..... | ..... | ..... | ..... | 53 | 30 | 12 | 34 | 10 | 7.9 |
| 9.... | 16 | ..... | ..... | ..... | ..... | ..... | 78 | 28 | 12 | 33 | 14 | 7.6 |
| 10.... | 13 | ..... | ..... | ..... | ..... | ..... | 55 | 29 | 11 | 33 | 16 | 8.5 |
| 11.... | 11 | ..... | ..... | ..... | ..... | ..... | 34 | 26 | 11 | 44 | 16 | 7.9 |
| 12.... | 11 | ..... | ..... | ..... | ..... | ..... | 38 | 25 | 10 | 44 | 16 | 7.6 |
| 13.... | 11 | ..... | ..... | ..... | ..... | ..... | 52 | 24 | 10 | 45 | 17 | 7.6 |
| 14.... | 11 | ..... | ..... | ..... | ..... | ..... | 66 | 23 | 10 | 51 | 17 | 7.9 |
| 15.... | 11 | ..... | ..... | ..... | ..... | ..... | 33 | 23 | 9.8 | 52 | 19 | 8.5 |
| 16.... | 11 | ..... | ..... | ..... | ..... | ..... | 26 | 22 | 9.8 | 39 | 19 | 8.2 |
| 17.... | 11 | ..... | ..... | ..... | ..... | ..... | 21 | 22 | 9.8 | 16 | 18 | 8.2 |
| 18.... | 11 | ..... | ..... | ..... | ..... | ..... | 24 | 19 | 9.5 | 33 | 18 | 7.6 |
| 19.... | 11 | ..... | ..... | ..... | ..... | ..... | 32 | 17 | 9.8 | 32 | 17 | 6.9 |
| 20.... | 11 | ..... | ..... | ..... | ..... | ..... | 38 | 16 | 10 | 32 | 16 | 6.9 |
| 21.... | 11 | ..... | ..... | ..... | ..... | ..... | 51 | 15 | 20 | 32 | 10 | 6.9 |
| 22.... | 11 | ..... | ..... | ..... | ..... | ..... | 55 | 14 | 27 | 34 | 9.5 | 6.6 |
| 23.... | 11 | ..... | ..... | ..... | ..... | ..... | 62 | 14 | 34 | 35 | 8.5 | 6.9 |
| 24.... | 11 | ..... | ..... | ..... | ..... | ..... | 47 | 14 | 35 | 31 | 8.5 | 6.9 |
| 25.... | 11 | ..... | ..... | ..... | ..... | ..... | 39 | 43 | 14 | 35 | 30 | 6.9 |
| 26.... | 10 | ..... | ..... | ..... | ..... | ..... | 54 | 46 | 14 | 35 | 32 | 8.2 |
| 27.... | 10 | ..... | ..... | ..... | ..... | ..... | 51 | 43 | 14 | 35 | 32 | 8.2 |
| 28.... | 10 | ..... | ..... | ..... | ..... | ..... | 30 | 48 | 14 | 35 | 29 | 8.5 |
| 29.... | 10 | ..... | ..... | ..... | ..... | ..... | 23 | 57 | 14 | 35 | 30 | 8.2 |
| 30.... | 10 | Nov. 1 | ..... | ..... | ..... | ..... | 22 | 55 | 14 | 35 | 14 | 7.9 |
| 31.... | 10 | to 3 | ..... | ..... | ..... | ..... | 24 | ..... | 14 | ..... | 10 | 8.5 |
| Total | 350.0 | 30 | ..... | ..... | ..... | 243 | 1482 | 771 | 549.7 | 1028 | 375.9 | 229.7 |
| Mean.. | 11.3 | 10 | ..... | ..... | ..... | 34.7 | 49.4 | 24.9 | 18.3 | 33.2 | 12.1 | 7.66 |
| Max... | 26 | 10 | ..... | ..... | ..... | 54 | 78 | 60 | 35 | 52 | 19 | 8.8 |
| Min... | 8.9 | 10 | ..... | ..... | ..... | 22 | 21 | 14 | 9.5 | 10 | 7.9 | 6.6 |
| Acre-ft. | 694 | 60 | ..... | ..... | ..... | 482 | 2940 | 1530 | 1090 | 2040 | 746 | 456 |

Total run-off for period=10,038 acre-feet.

Discharge of La Jara Creek at Gallegos Ranch Near Capulin, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|--------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| 1.... | 7.6 | 8.5 | ..... | ..... | ..... | ..... | 18 | 18 | 10 | 14 | 5.0 | 6.6 |
| 2.... | 7.9 | 8.2 | ..... | ..... | ..... | ..... | 14 | 18 | 9.8 | 14 | 5.2 | 6.6 |
| 3.... | 7.9 | 8.2 | ..... | ..... | ..... | ..... | 15 | 18 | 9.5 | 14 | 5.0 | 6.6 |
| 4.... | 7.9 | 8.5 | ..... | ..... | ..... | ..... | 16 | 16 | 9.2 | 14 | 4.7 | 6.3 |
| 5.... | 7.6 | 8.5 | ..... | ..... | ..... | ..... | 15 | 15 | 9.2 | 14 | 5.5 | 6.1 |
| 6.... | 7.9 | 8.8 | ..... | ..... | ..... | ..... | 16 | 14 | 8.8 | 9.2 | 6.6 | 6.1 |
| 7.... | 7.9 | 7.9 | ..... | ..... | ..... | ..... | 16 | 15 | 8.8 | 6.1 | 7.2 | 5.8 |
| 8.... | 8.5 | 8.2 | ..... | ..... | ..... | ..... | 15 | 10 | 8.8 | 6.1 | 12 | 6.1 |
| 9.... | 8.2 | 8.8 | ..... | ..... | ..... | ..... | 15 | 9.2 | 8.5 | 6.6 | 6.9 | 6.1 |
| 10.... | 7.9 | ..... | ..... | ..... | ..... | ..... | 16 | 8.5 | 8.5 | 6.3 | 6.9 | 6.6 |
| 11.... | 7.6 | ..... | ..... | ..... | ..... | ..... | 15 | 9.2 | 8.5 | 6.3 | 7.2 | 6.9 |
| 12.... | 7.2 | ..... | ..... | ..... | ..... | ..... | 15 | 9.5 | 8.5 | 5.8 | 6.9 | 7.6 |
| 13.... | 7.2 | ..... | ..... | ..... | ..... | ..... | 15 | 9.8 | 8.5 | 6.1 | 6.3 | 8.2 |
| 14.... | 7.2 | ..... | ..... | ..... | ..... | ..... | 19 | 10 | 8.5 | 5.8 | 5.5 | 7.2 |
| 15.... | 7.2 | ..... | ..... | ..... | ..... | ..... | 25 | 8.5 | 8.2 | 5.8 | 4.7 | 7.2 |
| 16.... | 6.9 | ..... | ..... | ..... | ..... | ..... | 22 | 7.9 | 8.2 | 15 | 5.0 | 6.9 |
| 17.... | 6.9 | ..... | ..... | ..... | ..... | ..... | 20 | 9.2 | 8.8 | 16 | 5.2 | 7.2 |
| 18.... | 6.9 | ..... | ..... | ..... | ..... | ..... | 23 | 17 | 8.5 | 15 | 4.4 | 8.2 |
| 19.... | 6.9 | ..... | ..... | ..... | ..... | ..... | 24 | 22 | 8.8 | 7.6 | 4.7 | 7.6 |
| 20.... | 6.9 | ..... | ..... | ..... | ..... | ..... | 23 | 16 | 8.5 | 6.3 | 6.3 | 7.6 |
| 21.... | 6.6 | ..... | ..... | ..... | ..... | ..... | 27 | 15 | 8.5 | 6.1 | 7.2 | 7.2 |
| 22.... | 6.6 | ..... | ..... | ..... | ..... | ..... | 26 | 18 | 8.8 | 6.3 | 5.8 | 7.2 |
| 23.... | 6.9 | ..... | ..... | ..... | ..... | ..... | 26 | 37 | 8.8 | 5.2 | 5.8 | 7.2 |
| 24.... | 7.2 | ..... | ..... | ..... | ..... | ..... | 24 | 34 | 9.2 | 5.0 | 8.5 | 6.9 |
| 25.... | 7.2 | ..... | ..... | ..... | ..... | ..... | 21 | 24 | 9.2 | 4.7 | 6.9 | 6.9 |
| 26.... | 8.5 | ..... | ..... | ..... | ..... | ..... | 14 | 19 | 20 | 13 | 4.7 | 6.6 |
| 27.... | 8.2 | ..... | ..... | ..... | ..... | ..... | 19 | 21 | 17 | 14 | 6.1 | 9.2 |
| 28.... | 7.9 | ..... | ..... | ..... | ..... | ..... | 15 | 20 | 14 | 14 | 5.0 | 9.8 |
| 29.... | 8.2 | ..... | ..... | ..... | ..... | ..... | 15 | 20 | 13 | 15 | 5.0 | 11 |
| 30.... | 7.9 | Nov. 1 | ..... | ..... | ..... | ..... | 15 | 20 | 12 | 14 | 6.1 | 8.5 |
| 31.... | 8.2 | to 9 | ..... | ..... | ..... | ..... | 18 | ..... | 11 | ..... | 6.1 | 6.3 |
| Total | 233.6 | 75.6 | ..... | ..... | ..... | 96 | 581 | 475.8 | 290.6 | 254.3 | 207.8 | 207.2 |
| Mean.. | 7.54 | 8.10 | ..... | ..... | ..... | 16.0 | 19.4 | 15.3 | 9.69 | 8.20 | 6.70 | 6.91 |
| Max... | 8.5 | 8.8 | ..... | ..... | ..... | 19 | 27 | 37 | 15 | 16 | 12 | 8.2 |
| Min... | 6.6 | 7.9 | ..... | ..... | ..... | 14 | 14 | 7.9 | 8.2 | 4.7 | 4.4 | 5.8 |
| Acre-ft. | 463 | 150 | ..... | ..... | ..... | 190 | 1150 | 944 | 576 | 504 | 412 | 411 |

Total run-off for period=4,800 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Trincher Creek Above Turner Ranch Near Ft. Garland, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | |
|----------|------|--------|-------|-------|-------|---------|------|------|-------|------|------|-------|-------|
| 1..... | 14 | 13 | ..... | ..... | ..... | ..... | 13 | 63 | 72 | 30 | 18 | 9.6 | |
| 2..... | 14 | 14 | ..... | ..... | ..... | ..... | 15 | 67 | 72 | 27 | 18 | 8.9 | |
| 3..... | 14 | ..... | ..... | ..... | ..... | ..... | 17 | 70 | 74 | 27 | 17 | 8.2 | |
| 4..... | 14 | ..... | ..... | ..... | ..... | ..... | 18 | 72 | 74 | 27 | 15 | 7.5 | |
| 5..... | 15 | ..... | ..... | ..... | ..... | ..... | 18 | 67 | 77 | 25 | 15 | 6.1 | |
| 6..... | 14 | ..... | ..... | ..... | ..... | ..... | 18 | 70 | 77 | 25 | 15 | 6.8 | |
| 7..... | 14 | ..... | ..... | ..... | ..... | ..... | 20 | 70 | 77 | 24 | 17 | 7.5 | |
| 8..... | 22 | ..... | ..... | ..... | ..... | ..... | 17 | 67 | 74 | 24 | 16 | 9.6 | |
| 9..... | 18 | ..... | ..... | ..... | ..... | ..... | 19 | 70 | 70 | 24 | 14 | 9.6 | |
| 10..... | 17 | ..... | ..... | ..... | ..... | ..... | 20 | 74 | 67 | 21 | 14 | 9.6 | |
| 11..... | 16 | ..... | ..... | ..... | ..... | ..... | 25 | 74 | 70 | 20 | 14 | 9.6 | |
| 12..... | 16 | ..... | ..... | ..... | ..... | ..... | 19 | 77 | 65 | 19 | 13 | 8.9 | |
| 13..... | 16 | ..... | ..... | ..... | ..... | ..... | 21 | 74 | 65 | 18 | 11 | 10 | |
| 14..... | 16 | ..... | ..... | ..... | ..... | ..... | 26 | 72 | 63 | 18 | 13 | 13 | |
| 15..... | 16 | ..... | ..... | ..... | ..... | ..... | 25 | 72 | 59 | 19 | 12 | 17 | |
| 16..... | 16 | ..... | ..... | ..... | ..... | ..... | 22 | 70 | 57 | 18 | 12 | 22 | |
| 17..... | 16 | ..... | ..... | ..... | ..... | ..... | 24 | 70 | 53 | 16 | 12 | 16 | |
| 18..... | 15 | ..... | ..... | ..... | ..... | ..... | 21 | 67 | 51 | 18 | 11 | 15 | |
| 19..... | 15 | ..... | ..... | ..... | ..... | ..... | 20 | 72 | 49 | 17 | 11 | 14 | |
| 20..... | 15 | ..... | ..... | ..... | ..... | ..... | 24 | 74 | 46 | 17 | 12 | 13 | |
| 21..... | 14 | ..... | ..... | ..... | ..... | ..... | 28 | 77 | 42 | 17 | 13 | 13 | |
| 22..... | 14 | ..... | ..... | ..... | ..... | ..... | 38 | 77 | 40 | 16 | 11 | 13 | |
| 23..... | 15 | ..... | ..... | ..... | ..... | ..... | 44 | 77 | 40 | 16 | 10 | 13 | |
| 24..... | 14 | ..... | ..... | ..... | ..... | ..... | 44 | 77 | 36 | 16 | 10 | 12 | |
| 25..... | 14 | ..... | ..... | ..... | ..... | ..... | 42 | 77 | 35 | 16 | 11 | 13 | |
| 26..... | 15 | ..... | ..... | ..... | ..... | ..... | 42 | 77 | 35 | 16 | 13 | 13 | |
| 27..... | 14 | ..... | ..... | ..... | ..... | ..... | 46 | 74 | 35 | 18 | 14 | 12 | |
| 28..... | 13 | ..... | ..... | ..... | ..... | ..... | 49 | 70 | 34 | 19 | 13 | 11 | |
| 29..... | 13 | ..... | ..... | ..... | ..... | ..... | 55 | 67 | 34 | 17 | 11 | 11 | |
| 30..... | 13 | Nov. 1 | ..... | ..... | ..... | Mar. 31 | 59 | 70 | 34 | 26 | 10 | 11 | |
| 31..... | 13 | to 2 | ..... | ..... | ..... | ..... | 11 | 70 | ..... | 31 | 9.6 | ..... |  |
| Total | 467 | 27 | | | | | 11 | 849 | 2225 | 1677 | 642 | 408.6 | 343.9 |
| Mean.. | 15.1 | 13.5 | | | | | 11 | 28.3 | 71.8 | 55.9 | 20.7 | 13.2 | 11.5 |
| Max... | 22 | 14 | | | | | 11 | 59 | 77 | 77 | 31 | 18 | 22 |
| Min... | 13 | 13 | | | | | 11 | 13 | 63 | 34 | 16 | 9.6 | 6.1 |
| Acre-ft. | 926 | 54 | | | | | 22 | 1680 | 4410 | 3330 | 1270 | 810 | 682 |

Total run-off for period=13,184 acre-feet.

Discharge of Trincher Creek Above Turner Ranch, Near Ft. Garland, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | |
|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|------|-------|------|
| 1..... | 11 | ..... | ..... | ..... | ..... | ..... | 15 | 33 | 80 | 29 | 15 | 11 | |
| 2..... | 11 | ..... | ..... | ..... | ..... | ..... | 16 | 36 | 80 | 27 | 14 | 12 | |
| 3..... | 11 | ..... | ..... | ..... | ..... | ..... | 16 | 47 | 78 | 26 | 14 | 12 | |
| 4..... | 11 | ..... | ..... | ..... | ..... | ..... | 14 | 58 | 75 | 29 | 14 | 11 | |
| 5..... | 11 | ..... | ..... | ..... | ..... | ..... | 15 | 56 | 73 | 30 | 14 | 11 | |
| 6..... | 11 | ..... | ..... | ..... | ..... | ..... | 14 | 58 | 68 | 25 | 20 | 11 | |
| 7..... | 11 | ..... | ..... | ..... | ..... | ..... | 13 | 63 | 66 | 24 | 27 | 12 | |
| 8..... | 13 | ..... | ..... | ..... | ..... | ..... | 12 | 68 | 66 | 23 | 18 | 11 | |
| 9..... | 12 | ..... | ..... | ..... | ..... | ..... | 12 | 63 | 65 | 22 | 16 | 11 | |
| 10..... | 10 | ..... | ..... | ..... | ..... | ..... | 12 | 66 | 63 | 22 | 15 | 13 | |
| 11..... | 10 | ..... | ..... | ..... | ..... | ..... | 14 | 70 | 60 | 21 | 16 | 14 | |
| 12..... | 10 | ..... | ..... | ..... | ..... | ..... | 14 | 66 | 54 | 20 | 15 | 12 | |
| 13..... | 10 | ..... | ..... | ..... | ..... | ..... | 15 | 68 | 51 | 21 | 14 | 11 | |
| 14..... | 11 | ..... | ..... | ..... | ..... | ..... | 20 | 75 | 48 | 20 | 14 | 11 | |
| 15..... | 11 | ..... | ..... | ..... | ..... | ..... | 22 | 80 | 47 | 20 | 14 | 11 | |
| 16..... | 11 | ..... | ..... | ..... | ..... | ..... | 20 | 85 | 47 | 19 | 14 | 11 | |
| 17..... | 10 | ..... | ..... | ..... | ..... | ..... | 20 | 92 | 43 | 19 | 15 | 12 | |
| 18..... | 10 | ..... | ..... | ..... | ..... | ..... | 20 | 92 | 41 | 19 | 16 | 13 | |
| 19..... | 10 | ..... | ..... | ..... | ..... | ..... | 22 | 90 | 40 | 18 | 16 | 14 | |
| 20..... | 10 | ..... | ..... | ..... | ..... | ..... | 26 | 82 | 38 | 19 | 17 | 11 | |
| 21..... | 10 | ..... | ..... | ..... | ..... | ..... | 30 | 80 | 38 | 23 | 15 | 13 | |
| 22..... | 10 | ..... | ..... | ..... | ..... | ..... | 32 | 75 | 37 | 20 | 14 | 14 | |
| 23..... | 10 | ..... | ..... | ..... | ..... | ..... | 33 | 73 | 36 | 18 | 15 | 14 | |
| 24..... | 9.6 | ..... | ..... | ..... | ..... | ..... | 35 | 70 | 35 | 18 | 17 | 13 | |
| 25..... | 9.6 | ..... | ..... | ..... | ..... | ..... | 36 | 73 | 35 | 17 | 14 | 13 | |
| 26..... | 10 | ..... | ..... | ..... | ..... | ..... | 41 | 73 | 35 | 18 | 14 | 13 | |
| 27..... | 9.6 | ..... | ..... | ..... | ..... | ..... | 48 | 70 | 32 | 17 | 14 | 12 | |
| 28..... | 8.9 | ..... | ..... | ..... | ..... | ..... | 44 | 73 | 31 | 16 | 14 | 12 | |
| 29..... | 9.6 | ..... | ..... | ..... | ..... | ..... | 38 | 75 | 31 | 16 | 13 | 12 | |
| 30..... | 10 | ..... | ..... | ..... | ..... | ..... | 33 | 78 | 31 | 15 | 12 | 13 | |
| 31..... | 9.6 | ..... | ..... | ..... | ..... | ..... | 14 | 80 | ..... | 16 | 11 | ..... |  |
| Total | 321.9 | | | | | | | 702 | 2168 | 1524 | 647 | 471 | 364 |
| Mean.. | 10.4 | | | | | | | 23.4 | 69.9 | 50.8 | 20.9 | 15.2 | 12.1 |
| Max... | 13 | | | | | | | 48 | 92 | 80 | 30 | 27 | 14 |
| Min... | 8.9 | | | | | | | 12 | 33 | 31 | 15 | 11 | 11 |
| Acre-ft. | 638 | | | | | | | 1390 | 4300 | 3020 | 1280 | 934 | 722 |

Total run-off for period=12,280 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Trinchera Creek Above Mountain Home Reservoir Near Ft. Garland, Colo.,
for Year Ending Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | |
|----------|-------|--------|-------|-------|-------|-------|------|------|------|------|-------|-------|-------|
| 1.... | 11 | 10 | ..... | ..... | ..... | ..... | 14 | 59 | 41 | 12 | 26 | 7.9 | |
| 2.... | 10 | 10 | ..... | ..... | ..... | ..... | 15 | 63 | 40 | 13 | 17 | 7.9 | |
| 3.... | 10 | 10 | ..... | ..... | ..... | ..... | 17 | 64 | 40 | 12 | 16 | 7.4 | |
| 4.... | 10 | ..... | ..... | ..... | ..... | ..... | 20 | 70 | 46 | 12 | 15 | 6.9 | |
| 5.... | 10 | ..... | ..... | ..... | ..... | ..... | 17 | 68 | 45 | 13 | 13 | 6.4 | |
| 6.... | 10 | ..... | ..... | ..... | ..... | ..... | 17 | 65 | 46 | 14 | 9.9 | 6.4 | |
| 7.... | 12 | ..... | ..... | ..... | ..... | ..... | 17 | 65 | 44 | 14 | 10 | 5.6 | |
| 8.... | 17 | ..... | ..... | ..... | ..... | ..... | 17 | 64 | 41 | 15 | 9.9 | 7.4 | |
| 9.... | 14 | ..... | ..... | ..... | ..... | ..... | 19 | 52 | 42 | 15 | 8.4 | 6.9 | |
| 10.... | 13 | ..... | ..... | ..... | ..... | ..... | 20 | 50 | 40 | 14 | 8.4 | 8.4 | |
| 11.... | 12 | ..... | ..... | ..... | ..... | ..... | 18 | 48 | 39 | 13 | 8.9 | 8.4 | |
| 12.... | 12 | ..... | ..... | ..... | ..... | ..... | 20 | 55 | 37 | 9.9 | 8.4 | 8.4 | |
| 13.... | 12 | ..... | ..... | ..... | ..... | ..... | 20 | 50 | 37 | 8.9 | 8.4 | 8.9 | |
| 14.... | 11 | ..... | ..... | ..... | ..... | ..... | 23 | 48 | 33 | 8.9 | 9.4 | 14 | |
| 15.... | 11 | ..... | ..... | ..... | ..... | ..... | 24 | 46 | 30 | 10 | 8.9 | 14 | |
| 16.... | 11 | ..... | ..... | ..... | ..... | ..... | 23 | 42 | 28 | 9.9 | 8.9 | 20 | |
| 17.... | 11 | ..... | ..... | ..... | ..... | ..... | 20 | 41 | 24 | 8.9 | 8.9 | 14 | |
| 18.... | 10 | ..... | ..... | ..... | ..... | ..... | 17 | 41 | 22 | 8.4 | 8.9 | 11 | |
| 19.... | 10 | ..... | ..... | ..... | ..... | ..... | 19 | 44 | 20 | 8.9 | 8.9 | 11 | |
| 20.... | 10 | ..... | ..... | ..... | ..... | ..... | 20 | 51 | 17 | 9.4 | 8.4 | 10 | |
| 21.... | 10 | ..... | ..... | ..... | ..... | ..... | 23 | 55 | 16 | 9.4 | 9.4 | 10 | |
| 22.... | 10 | ..... | ..... | ..... | ..... | ..... | 30 | 56 | 15 | 8.9 | 7.9 | 10 | |
| 23.... | 9.6 | ..... | ..... | ..... | ..... | ..... | 37 | 55 | 16 | 9.9 | 7.9 | 9.4 | |
| 24.... | 9.6 | ..... | ..... | ..... | ..... | ..... | 38 | 50 | 17 | 8.9 | 7.4 | 9.4 | |
| 25.... | 12 | ..... | ..... | ..... | ..... | ..... | 35 | 53 | 16 | 8.9 | 7.9 | 9.4 | |
| 26.... | 12 | ..... | ..... | ..... | ..... | ..... | 35 | 54 | 15 | 8.9 | 9.4 | 9.4 | |
| 27.... | 11 | ..... | ..... | ..... | ..... | ..... | 38 | 47 | 14 | 9.4 | 8.9 | 8.9 | |
| 28.... | 10 | ..... | ..... | ..... | ..... | ..... | 44 | 42 | 13 | 11 | 9.4 | 9.4 | |
| 29.... | 10 | ..... | ..... | ..... | ..... | ..... | 14 | 50 | 38 | 14 | 11 | 9.4 | |
| 30.... | 10 | Nov. 1 | ..... | ..... | ..... | ..... | 14 | 53 | 37 | 13 | 23 | 8.4 | |
| 31.... | 10 | to 3 | ..... | ..... | ..... | ..... | 13 | 38 | 38 | 29 | 7.9 | ..... |  |
| Total | 341.2 | 30 | | | | | 41 | 760 | 1611 | 861 | 368.5 | 315.5 | 282.6 |
| Mean.. | 11.0 | 10 | | | | | 13.7 | 25.3 | 52.0 | 28.7 | 11.9 | 10.2 | 9.42 |
| Max... | 17 | 10 | | | | | 14 | 53 | 70 | 46 | 29 | 26 | 20 |
| Min... | 9.6 | 10 | | | | | 13 | 14 | 37 | 13 | 8.4 | 7.4 | 5.6 |
| Acre-ft. | 677 | 60 | | | | | 81 | 1510 | 3200 | 1710 | 731 | 626 | 561 |

Total run-off for period=9,156 acre-feet.

**Discharge of Trinchera Creek Above Mountain Home Reservoir Near Fort Garland, Colorado,
for Year Ending Sept. 30, 1940.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| 1.... | 7.4 | ..... | ..... | ..... | ..... | ..... | 13 | 8.8 | 48 | 24 | 11 | 9.7 |
| 2.... | 6.0 | ..... | ..... | ..... | ..... | ..... | 14 | 9.7 | 46 | 24 | 10 | 11 |
| 3.... | 6.4 | ..... | ..... | ..... | ..... | ..... | 13 | 11 | 45 | 23 | 9.7 | 11 |
| 4.... | 7.4 | ..... | ..... | ..... | ..... | ..... | 13 | 18 | 41 | 25 | 8.8 | 10 |
| 5.... | 6.0 | ..... | ..... | ..... | ..... | ..... | 13 | 21 | 39 | 29 | 8.8 | 9.2 |
| 6.... | 6.0 | ..... | ..... | ..... | ..... | ..... | 14 | 20 | 36 | 26 | 11 | 8.8 |
| 7.... | 6.9 | ..... | ..... | ..... | ..... | ..... | 13 | 20 | 35 | 23 | 24 | 9.7 |
| 8.... | 7.4 | ..... | ..... | ..... | ..... | ..... | 12 | 24 | 34 | 20 | 15 | 8.3 |
| 9.... | 8.4 | ..... | ..... | ..... | ..... | ..... | 12 | 23 | 33 | 18 | 13 | 7.4 |
| 10.... | 7.9 | ..... | ..... | ..... | ..... | ..... | 12 | 25 | 32 | 16 | 12 | 7.8 |
| 11.... | 6.4 | ..... | ..... | ..... | ..... | ..... | 12 | 27 | 31 | 14 | 12 | 9.2 |
| 12.... | 7.4 | ..... | ..... | ..... | ..... | ..... | 12 | 28 | 28 | 13 | 12 | 7.8 |
| 13.... | 8.4 | ..... | ..... | ..... | ..... | ..... | 13 | 31 | 27 | 13 | 11 | 6.7 |
| 14.... | 9.4 | ..... | ..... | ..... | ..... | ..... | 16 | 32 | 27 | 13 | 9.2 | 6.3 |
| 15.... | 8.9 | ..... | ..... | ..... | ..... | ..... | 20 | 33 | 33 | 12 | 8.3 | 7.0 |
| 16.... | 6.9 | ..... | ..... | ..... | ..... | ..... | 19 | 37 | 37 | 12 | 7.8 | 7.0 |
| 17.... | 6.9 | ..... | ..... | ..... | ..... | ..... | 18 | 42 | 33 | 11 | 9.2 | 6.7 |
| 18.... | 7.4 | ..... | ..... | ..... | ..... | ..... | 16 | 46 | 32 | 11 | 8.3 | 7.4 |
| 19.... | 7.4 | ..... | ..... | ..... | ..... | ..... | 18 | 40 | 31 | 12 | 12 | 8.3 |
| 20.... | 7.9 | ..... | ..... | ..... | ..... | ..... | 23 | 38 | 37 | 12 | 9.7 | 7.4 |
| 21.... | 7.9 | ..... | ..... | ..... | ..... | ..... | 29 | 39 | 36 | 17 | 10 | 7.4 |
| 22.... | 7.9 | ..... | ..... | ..... | ..... | ..... | 32 | 39 | 36 | 16 | 10 | 8.3 |
| 23.... | 8.4 | ..... | ..... | ..... | ..... | ..... | 32 | 37 | 33 | 13 | 12 | 7.8 |
| 24.... | 8.4 | ..... | ..... | ..... | ..... | ..... | 32 | 35 | 31 | 13 | 14 | 7.0 |
| 25.... | 7.9 | ..... | ..... | ..... | ..... | ..... | 29 | 38 | 28 | 12 | 13 | 7.0 |
| 26.... | 8.4 | ..... | ..... | ..... | ..... | ..... | 16 | 40 | 28 | 12 | 12 | 7.4 |
| 27.... | 8.4 | ..... | ..... | ..... | ..... | ..... | 18 | 37 | 27 | 13 | 12 | 6.3 |
| 28.... | 7.4 | ..... | ..... | ..... | ..... | ..... | 15 | 40 | 26 | 12 | 11 | 5.9 |
| 29.... | 5.6 | ..... | ..... | ..... | ..... | ..... | 12 | 42 | 27 | 12 | 11 | 7.0 |
| 30.... | 5.2 | ..... | ..... | ..... | ..... | ..... | 9.7 | 42 | 26 | 12 | 10 | 6.3 |
| 31.... | 5.6 | ..... | ..... | ..... | ..... | ..... | 12 | 46 | ..... | 12 | 10 | ..... |
| Total | 227.9 | ..... | ..... | ..... | ..... | ..... | 520.7 | 969.5 | 1003 | 495 | 347.8 | 237.1 |
| Mean.. | 7.35 | ..... | ..... | ..... | ..... | ..... | 17.4 | 31.3 | 33.4 | 16.0 | 11.2 | 7.90 |
| Max... | 9.4 | ..... | ..... | ..... | ..... | ..... | 32 | 46 | 48 | 29 | 24 | 11 |
| Min... | 5.2 | ..... | ..... | ..... | ..... | ..... | 9.7 | 8.8 | 26 | 11 | 7.8 | 5.9 |
| Acre-ft. | 452 | ..... | ..... | ..... | ..... | ..... | 1030 | 1920 | 1990 | 982 | 690 | 470 |

Total run-off for period=7,530 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Trinchera Creek Below Smith Reservoir Near Blanca, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|--------|-------|-------|-------|---------|-------|--------|-------|-------|------|-------|
| 1.... | 0.6 | 0.6 | ..... | ..... | ..... | ..... | 78 | 128 | 18 | 2.2 | 3.2 | 0.4 |
| 2.... | 0.6 | 0.6 | ..... | ..... | ..... | ..... | 80 | 120 | 18 | 2.0 | 2.6 | 0.6 |
| 3.... | 0.5 | ..... | ..... | ..... | ..... | ..... | 88 | 119 | 18 | 2.2 | 2.4 | 0.6 |
| 4.... | 0.5 | ..... | ..... | ..... | ..... | ..... | 103 | 117 | 18 | 2.5 | 2.5 | 0.6 |
| 5.... | 0.7 | ..... | ..... | ..... | ..... | ..... | 117 | 109 | 18 | 2.5 | 2.8 | 0.6 |
| 6.... | 0.6 | ..... | ..... | ..... | ..... | ..... | 123 | 100 | 16 | 2.4 | 2.8 | 0.5 |
| 7.... | 0.8 | ..... | ..... | ..... | ..... | ..... | 103 | 96 | 14 | 2.0 | 2.4 | 0.3 |
| 8.... | 1.1 | ..... | ..... | ..... | ..... | ..... | 104 | 92 | 17 | 6.0 | 1.9 | 0.6 |
| 9.... | 0.9 | ..... | ..... | ..... | ..... | ..... | 100 | 77 | 5.1 | 7.6 | 3.6 | 0.9 |
| 10.... | 0.7 | ..... | ..... | ..... | ..... | ..... | 108 | 68 | 2.6 | 7.0 | 3.4 | 0.9 |
| 11.... | 0.8 | ..... | ..... | ..... | ..... | ..... | 109 | 63 | 2.6 | 6.8 | 3.2 | 0.6 |
| 12.... | 0.9 | ..... | ..... | ..... | ..... | ..... | 107 | 73 | 2.6 | 6.8 | 3.8 | 0.8 |
| 13.... | 0.9 | ..... | ..... | ..... | ..... | ..... | 106 | 63 | 2.6 | 8.3 | 3.2 | 1.0 |
| 14.... | 0.9 | ..... | ..... | ..... | ..... | ..... | 116 | 55 | 6.0 | 14 | 2.6 | 0.5 |
| 15.... | 0.9 | ..... | ..... | ..... | ..... | Mar. 17 | 130 | 48 | 6.0 | 15 | 2.2 | 0.9 |
| 16.... | 0.9 | ..... | ..... | ..... | ..... | to 31 | 129 | 36 | 6.0 | 14 | 2.6 | 1.0 |
| 17.... | 0.9 | ..... | ..... | ..... | ..... | 40 | 115 | 27 | 6.2 | 12 | 1.4 | 0.9 |
| 18.... | 0.9 | ..... | ..... | ..... | ..... | 49 | 110 | 19 | 6.4 | 12 | 0.9 | 0.8 |
| 19.... | 0.9 | ..... | ..... | ..... | ..... | 57 | 101 | 13 | 6.4 | 11 | 0.8 | 0.8 |
| 20.... | 0.9 | ..... | ..... | ..... | ..... | 69 | 97 | 11 | 6.2 | 11 | 0.8 | 0.6 |
| 21.... | 0.9 | ..... | ..... | ..... | ..... | 80 | 88 | 11 | 6.2 | 5.8 | 0.6 | 0.6 |
| 22.... | 0.9 | ..... | ..... | ..... | ..... | 84 | 91 | 8.3 | 6.2 | 3.6 | 0.9 | 0.8 |
| 23.... | 0.9 | ..... | ..... | ..... | ..... | 98 | 104 | 4.1 | 6.6 | 3.4 | 0.4 | 0.8 |
| 24.... | 0.9 | ..... | ..... | ..... | ..... | 112 | 120 | 1.9 | 6.8 | 4.3 | 0.4 | 0.8 |
| 25.... | 0.9 | ..... | ..... | ..... | ..... | 119 | 119 | 1.3 | 6.6 | 4.5 | 0.6 | 0.8 |
| 26.... | 0.9 | ..... | ..... | ..... | ..... | 112 | 116 | 1.2 | 6.4 | 4.3 | 0.9 | 0.8 |
| 27.... | 0.9 | ..... | ..... | ..... | ..... | 110 | 115 | 1.1 | 6.4 | 3.4 | 0.9 | 0.8 |
| 28.... | 0.5 | ..... | ..... | ..... | ..... | 107 | 112 | 0.9 | 3.8 | 3.4 | 0.8 | 0.6 |
| 29.... | 0.6 | ..... | ..... | ..... | ..... | 99 | 114 | 0.9 | 2.5 | 3.9 | 0.5 | 0.8 |
| 30.... | 0.6 | Nov. 1 | ..... | ..... | ..... | 92 | 124 | 4.9 | 1.6 | 3.6 | 0.4 | 0.9 |
| 31.... | 0.6 | to 2 | ..... | ..... | ..... | 82 | ..... | 18 | ..... | 3.4 | 0.4 | ..... |
| Total | 24.5 | 1.2 | ..... | ..... | ..... | 1310 | 3227 | 1487.6 | 248.8 | 190.9 | 55.9 | 21.6 |
| Mean. | 0.79 | 0.6 | ..... | ..... | ..... | 87.3 | 108 | 48.0 | 8.29 | 6.16 | 1.80 | 0.72 |
| Max.. | 1.1 | 0.6 | ..... | ..... | ..... | 119 | 130 | 128 | 18 | 15 | 3.8 | 1.0 |
| Min.. | 0.5 | 0.6 | ..... | ..... | ..... | 40 | 78 | 0.9 | 1.6 | 2.0 | 0.4 | 0.3 |
| Acre-ft. | 49 | 2 | ..... | ..... | ..... | 2600 | 6400 | 2950 | 493 | 379 | 111 | 43 |

Total run-off for period=13,027 acre-feet.

Discharge of Trinchera Creek Below Smith Reservoir Near Blanca, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|-------|------|-------|------|------|-------|
| 1.... | 0.9 | ..... | ..... | ..... | ..... | ..... | 0.8 | 29 | 10 | 5.3 | 1.0 | 0.8 |
| 2.... | 0.8 | ..... | ..... | ..... | ..... | ..... | 0.8 | 28 | 7.8 | 4.4 | 0.9 | 0.8 |
| 3.... | 0.8 | ..... | ..... | ..... | ..... | ..... | 0.9 | 21 | 7.6 | 2.8 | 0.9 | 0.8 |
| 4.... | 0.8 | ..... | ..... | ..... | ..... | ..... | 0.8 | 17 | 7.3 | 2.8 | 1.0 | 0.7 |
| 5.... | 0.8 | ..... | ..... | ..... | ..... | ..... | 0.8 | 20 | 7.3 | 3.3 | 0.9 | 0.7 |
| 6.... | 0.8 | ..... | ..... | ..... | ..... | ..... | 0.9 | 20 | 6.0 | 3.5 | 1.0 | 0.7 |
| 7.... | 0.8 | ..... | ..... | ..... | ..... | ..... | 0.9 | 20 | 4.6 | 3.3 | 1.1 | 0.7 |
| 8.... | 0.9 | ..... | ..... | ..... | ..... | ..... | 0.8 | 22 | 4.6 | 3.3 | 0.9 | 0.6 |
| 9.... | 0.9 | ..... | ..... | ..... | ..... | ..... | 0.7 | 22 | 4.8 | 3.5 | 0.8 | 0.5 |
| 10.... | 0.9 | ..... | ..... | ..... | ..... | ..... | 0.7 | 22 | 5.1 | 3.5 | 0.9 | 0.6 |
| 11.... | 0.9 | ..... | ..... | ..... | ..... | ..... | 0.7 | 24 | 2.8 | 3.3 | 0.8 | 0.6 |
| 12.... | 0.6 | ..... | ..... | ..... | ..... | ..... | 0.7 | 21 | 3.1 | 1.6 | 0.8 | 0.6 |
| 13.... | 0.6 | ..... | ..... | ..... | ..... | ..... | 0.8 | 21 | 8.1 | 1.5 | 0.8 | 0.6 |
| 14.... | 0.6 | ..... | ..... | ..... | ..... | ..... | 0.7 | 20 | 8.1 | 1.5 | 0.8 | 0.6 |
| 15.... | 0.6 | ..... | ..... | ..... | ..... | ..... | 0.7 | 18 | 8.4 | 1.3 | 0.7 | 0.6 |
| 16.... | 0.6 | ..... | ..... | ..... | ..... | ..... | 0.7 | 16 | 8.7 | 1.4 | 0.8 | 0.6 |
| 17.... | 0.6 | ..... | ..... | ..... | ..... | ..... | 0.8 | 12 | 8.4 | 1.5 | 0.8 | 0.6 |
| 18.... | 0.5 | ..... | ..... | ..... | ..... | ..... | 0.7 | 13 | 8.1 | 1.5 | 1.0 | 0.7 |
| 19.... | 0.4 | ..... | ..... | ..... | ..... | ..... | 0.7 | 13 | 8.4 | 1.5 | 1.2 | 0.6 |
| 20.... | 0.3 | ..... | ..... | ..... | ..... | ..... | 0.8 | 14 | 8.7 | 1.8 | 1.2 | 0.6 |
| 21.... | 0.4 | ..... | ..... | ..... | ..... | ..... | 0.8 | 18 | 8.1 | 1.6 | 1.1 | 0.7 |
| 22.... | 0.4 | ..... | ..... | ..... | ..... | ..... | 3.1 | 18 | 8.1 | 1.5 | 1.0 | 0.7 |
| 23.... | 0.4 | ..... | ..... | ..... | ..... | ..... | 10 | 17 | 7.6 | 1.5 | 1.1 | 0.7 |
| 24.... | 0.4 | ..... | ..... | ..... | ..... | ..... | 12 | 17 | 5.8 | 1.5 | 1.2 | 0.7 |
| 25.... | 0.5 | ..... | ..... | ..... | ..... | ..... | 13 | 16 | 5.3 | 1.3 | 1.0 | 0.7 |
| 26.... | 0.4 | ..... | ..... | ..... | ..... | ..... | 13 | 15 | 5.5 | 1.3 | 0.9 | 0.7 |
| 27.... | 0.4 | ..... | ..... | ..... | ..... | ..... | 10 | 14 | 5.5 | 1.4 | 0.9 | 0.7 |
| 28.... | 0.5 | ..... | ..... | ..... | ..... | ..... | 11 | 13 | 5.8 | 1.1 | 0.9 | 0.8 |
| 29.... | 0.6 | ..... | ..... | ..... | ..... | ..... | 11 | 13 | 6.8 | 0.9 | 0.8 | 0.8 |
| 30.... | 0.5 | ..... | ..... | ..... | ..... | ..... | 20 | 14 | 5.3 | 0.9 | 0.8 | 0.8 |
| 31.... | 0.6 | ..... | ..... | ..... | ..... | 0.8 | ..... | 14 | ..... | 1.1 | 0.8 | ..... |
| Total | 19.2 | ..... | ..... | ..... | ..... | ..... | 119.3 | 562 | 201.7 | 66.7 | 28.8 | 20.3 |
| Mean. | 0.62 | ..... | ..... | ..... | ..... | ..... | 3.98 | 18.1 | 6.72 | 2.15 | 0.93 | 0.68 |
| Max.. | 0.9 | ..... | ..... | ..... | ..... | ..... | 20 | 29 | 10 | 5.3 | 1.2 | 0.8 |
| Min.. | 0.3 | ..... | ..... | ..... | ..... | ..... | 0.7 | 12 | 2.8 | 0.9 | 0.7 | 0.5 |
| Acre-ft. | 38 | ..... | ..... | ..... | ..... | ..... | 237 | 1110 | 400 | 132 | 57 | 40 |

Total run-off for period=2,010 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Sangre de Cristo Creek Near Ft. Garland, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|--------|------|------|------|---------|------|------|------|-------|-------|-------|
| 1 | 4.0 | 8.4 | | | | | 56 | 172 | 52 | 11 | 9.8 | 0 |
| 2 | 4.0 | 9.1 | | | | | 78 | 168 | 48 | 11 | 10 | 0 |
| 3 | 4.2 | | | | | | 89 | 174 | 44 | 9.8 | 8.1 | 0 |
| 4 | 4.4 | | | | | | 107 | 167 | 41 | 9.5 | 8.1 | 0 |
| 5 | 4.8 | | | | | | 85 | 160 | 41 | 8.8 | 7.2 | 0 |
| 6 | 5.0 | | | | | | 82 | 153 | 37 | 7.8 | 6.6 | 0 |
| 7 | 7.4 | | | | | | 80 | 136 | 37 | 6.9 | 7.2 | 0 |
| 8 | 20 | | | | | | 73 | 123 | 35 | 6.9 | 15 | 0 |
| 9 | 24 | | | | | | 82 | 114 | 34 | 8.8 | 10 | 0.6 |
| 10 | 16 | | | | | | 90 | 107 | 30 | 8.1 | 6.6 | 1.1 |
| 11 | 14 | | | | | | 77 | 104 | 29 | 6.6 | 4.9 | 1.5 |
| 12 | 12 | | | | | | 82 | 130 | 27 | 5.4 | 3.9 | 1.1 |
| 13 | 11 | | | | | | 84 | 127 | 26 | 4.2 | 3.6 | 2.5 |
| 14 | 10 | | | | | | 98 | 109 | 24 | 3.4 | 3.6 | 6.3 |
| 15 | 9.8 | | | | | | 105 | 100 | 23 | 3.9 | 2.9 | 5.2 |
| 16 | 8.8 | | | | | | 89 | 95 | 20 | 4.4 | 2.7 | 8.4 |
| 17 | 8.0 | | | | | | 76 | 91 | 19 | 3.9 | 2.4 | 7.5 |
| 18 | 7.4 | | | | | | 74 | 89 | 18 | 2.9 | 2.0 | 5.4 |
| 19 | 7.0 | | | | | | 72 | 82 | 13 | 2.9 | 1.5 | 4.4 |
| 20 | 7.4 | | | | | | 77 | 77 | 18 | 2.5 | 1.3 | 3.9 |
| 21 | 7.4 | | | | | | 88 | 73 | 17 | 2.0 | 2.7 | 3.2 |
| 22 | 8.0 | | | | | | 111 | 70 | 16 | 1.5 | 3.2 | 2.7 |
| 23 | 7.7 | | | | | | 125 | 66 | 16 | 0.9 | 1.8 | 2.5 |
| 24 | 8.4 | | | | | | 121 | 63 | 18 | .7 | 1.5 | 2.4 |
| 25 | 9.1 | | | | | | 119 | 65 | 14 | .4 | 1.3 | 2.5 |
| 26 | 9.1 | | | | | | 120 | 82 | 12 | .8 | 1.5 | 2.5 |
| 27 | 8.0 | | | | | Mar. 29 | 120 | 82 | 12 | 2.9 | 2.7 | 3.2 |
| 28 | 8.4 | | | | | to 31 | 140 | 66 | 12 | 4.2 | 2.4 | 2.7 |
| 29 | 8.4 | | | | | 49 | 158 | 60 | 12 | 5.4 | 2.2 | 2.7 |
| 30 | 8.8 | Nov. 1 | | | | 42 | 166 | 55 | 13 | 6.0 | 1.5 | 2.9 |
| 31 | 8.8 | to 2 | | | | 43 | | 53 | | 16 | 0.8 | |
| Total | 281.3 | 17.5 | | | | 134 | 2924 | 3213 | 758 | 169.5 | 139.0 | 75.2 |
| Mean. | 9.07 | 8.75 | | | | 44.7 | 97.5 | 104 | 25.3 | 5.47 | 4.48 | 2.51 |
| Max. | 24 | 9.1 | | | | 49 | 166 | 174 | 52 | 16 | 15 | 8.4 |
| Min. | 4.0 | 8.4 | | | | 42 | 56 | 53 | 12 | 0.4 | 0.8 | 0 |
| Acre-ft. | 558 | 35 | | | | 266 | 5800 | 6370 | 1500 | 336 | 276 | 149 |

Total run-off for period=15,290 acre-feet.

Discharge of Sangre de Cristo Creek Near Fort Garland, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|------|------|------|------|------|------|-------|------|------|-------|
| 1 | 2.9 | | | | | | 42 | 41 | 27 | 3.6 | 0.2 | 0 |
| 2 | 2.7 | | | | | | 45 | 39 | 25 | 3.4 | 0.4 | 0 |
| 3 | 2.6 | | | | | | 37 | 39 | 24 | 3.4 | 0 | 0 |
| 4 | 2.3 | | | | | | 36 | 41 | 23 | 3.6 | 0 | 0 |
| 5 | 2.3 | | | | | | 35 | 41 | 22 | 7.2 | 0 | 0 |
| 6 | 2.4 | | | | | | 34 | 41 | 21 | 6.6 | 0 | 0 |
| 7 | 2.6 | | | | | | 32 | 39 | 20 | 4.4 | 6.6 | 0 |
| 8 | 3.4 | | | | | | 27 | 43 | 18 | 6.0 | 5.2 | 0 |
| 9 | 4.4 | | | | | | 26 | 50 | 16 | 3.9 | 2.7 | 0 |
| 10 | 4.6 | | | | | | 25 | 43 | 16 | 2.7 | 1.5 | 0 |
| 11 | 4.6 | | | | | | 24 | 38 | 16 | 2.1 | 1.0 | 0 |
| 12 | 4.4 | | | | | | 21 | 40 | 14 | 2.4 | 0.7 | 0 |
| 13 | 4.2 | | | | | | 27 | 39 | 14 | 2.4 | 0.5 | 0 |
| 14 | 5.2 | | | | | | 29 | 37 | 13 | 5.2 | 0 | 0 |
| 15 | 4.9 | | | | | | 35 | 35 | 11 | 3.4 | 0 | 0 |
| 16 | 4.9 | | | | | | 37 | 34 | 11 | 2.9 | 0 | 0 |
| 17 | 5.2 | | | | | | 27 | 38 | 11 | 2.4 | 0 | 0 |
| 18 | 5.2 | | | | | | 36 | 61 | 8.8 | 2.1 | 0 | 0 |
| 19 | 5.4 | | | | | | 43 | 59 | 8.4 | 1.9 | 0.7 | 0 |
| 20 | 5.4 | | | | | | 49 | 45 | 7.5 | 2.1 | 2.3 | 0.2 |
| 21 | 5.4 | | | | | | 64 | 44 | 6.9 | 2.1 | 3.2 | 0.5 |
| 22 | 4.9 | | | | | | 71 | 55 | 7.8 | 2.1 | 2.4 | 0.2 |
| 23 | 4.4 | | | | | | 64 | 52 | 8.1 | 1.8 | 2.7 | 0.7 |
| 24 | 4.6 | | | | | | 60 | 48 | 6.9 | 1.1 | 3.4 | 0.6 |
| 25 | 4.6 | | | | | | 60 | 46 | 6.0 | 0.7 | 2.7 | 1.0 |
| 26 | 4.9 | | | | | | 59 | 51 | 5.2 | 0.7 | 2.1 | 1.8 |
| 27 | 5.7 | | | | | | 60 | 44 | 4.9 | 0.8 | 1.2 | 1.5 |
| 28 | 5.5 | | | | | | 55 | 38 | 3.9 | 0.5 | 0.6 | 1.2 |
| 29 | 5.0 | | | | | | 54 | 36 | 4.2 | 0.1 | 0.2 | 1.1 |
| 30 | 5.0 | | | | | | 49 | 33 | 3.9 | 0 | 0 | 2.6 |
| 31 | 5.0 | | | | | | | 29 | | 0 | 0 | |
| Total | 134.6 | | | | | | 1263 | 1319 | 384.5 | 81.6 | 40.3 | 11.4 |
| Mean. | 4.34 | | | | | | 42.1 | 42.5 | 12.8 | 2.63 | 1.30 | 0.38 |
| Max. | 5.7 | | | | | | 71 | 61 | 27 | 7.2 | 6.6 | 2.6 |
| Min. | 2.3 | | | | | | 21 | 29 | 3.9 | 0 | 0 | 0 |
| Acre-ft. | 267 | | | | | | 2510 | 2620 | 763 | 162 | 80 | 23 |

Total run-off for period=6,425 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ute Creek at Forks Near Ft. Garland, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|------|-------|
| 1.... | 9.5 | ..... | ..... | ..... | ..... | ..... | 18 | 22 | 76 | 18 | 16 | 13 |
| 2.... | 9.3 | ..... | ..... | ..... | ..... | ..... | 16 | 24 | 70 | 19 | 18 | 12 |
| 3.... | 9.1 | ..... | ..... | ..... | ..... | ..... | 15 | 33 | 63 | 18 | 16 | 12 |
| 4.... | 8.7 | ..... | ..... | ..... | ..... | ..... | 16 | 42 | 56 | 20 | 14 | 11 |
| 5.... | 8.4 | ..... | ..... | ..... | ..... | ..... | 16 | 40 | 55 | 23 | 15 | 9.9 |
| 6.... | 8.4 | ..... | ..... | ..... | ..... | ..... | 14 | 36 | 48 | 19 | 18 | 9.6 |
| 7.... | 9.2 | ..... | ..... | ..... | ..... | ..... | 14 | 40 | 42 | 18 | 21 | 9.6 |
| 8.... | 12 | ..... | ..... | ..... | ..... | ..... | 14 | 46 | 40 | 16 | 18 | 10 |
| 9.... | 12 | ..... | ..... | ..... | ..... | ..... | 14 | 31 | 38 | 16 | 16 | 9.6 |
| 10.... | 11 | ..... | ..... | ..... | ..... | ..... | 14 | 33 | 34 | 16 | 14 | 12 |
| 11.... | 10 | ..... | ..... | ..... | ..... | ..... | 12 | 42 | 32 | 16 | 14 | 13 |
| 12.... | 10 | ..... | ..... | ..... | ..... | ..... | 13 | 37 | 30 | 16 | 13 | 12 |
| 13.... | 9.9 | ..... | ..... | ..... | ..... | ..... | 16 | 44 | 30 | 19 | 12 | 11 |
| 14.... | 9.9 | ..... | ..... | ..... | ..... | ..... | 20 | 50 | 29 | 19 | 11 | 11 |
| 15.... | 10 | ..... | ..... | ..... | ..... | ..... | 23 | 55 | 32 | 17 | 11 | 16 |
| 16.... | 10 | ..... | ..... | ..... | ..... | ..... | 21 | 60 | 32 | 16 | 12 | 9.9 |
| 17.... | 10 | ..... | ..... | ..... | ..... | ..... | 19 | 61 | 29 | 16 | 11 | 12 |
| 18.... | 10 | ..... | ..... | ..... | ..... | ..... | 19 | 52 | 28 | 14 | 12 | 14 |
| 19.... | 10 | ..... | ..... | ..... | ..... | ..... | 22 | 44 | 26 | 14 | 11 | 20 |
| 20.... | 9.9 | ..... | ..... | ..... | ..... | ..... | 25 | 40 | 26 | 15 | 11 | 18 |
| 21.... | 9.9 | ..... | ..... | ..... | ..... | ..... | 27 | 42 | 29 | 19 | 11 | 18 |
| 22.... | 9.2 | ..... | ..... | ..... | ..... | ..... | 32 | 38 | 33 | 22 | 16 | 24 |
| 23.... | 8.8 | ..... | ..... | ..... | ..... | ..... | 30 | 36 | 29 | 18 | 29 | 22 |
| 24.... | 8.8 | ..... | ..... | ..... | ..... | ..... | 32 | 37 | 26 | 16 | 33 | 20 |
| 25.... | 8.8 | ..... | ..... | ..... | ..... | ..... | 33 | 38 | 24 | 16 | 31 | 20 |
| 26.... | 9.6 | ..... | ..... | ..... | ..... | ..... | 35 | 44 | 22 | 16 | 22 | 20 |
| 27.... | 8.5 | ..... | ..... | ..... | ..... | ..... | 35 | 48 | 20 | 16 | 19 | 18 |
| 28.... | 7.8 | ..... | ..... | ..... | ..... | ..... | 28 | 55 | 21 | 14 | 17 | 16 |
| 29.... | 8.5 | ..... | ..... | ..... | ..... | ..... | 25 | 61 | 20 | 14 | 16 | 16 |
| 30.... | 9.0 | ..... | ..... | ..... | ..... | ..... | 23 | 65 | 20 | 17 | 14 | 17 |
| 31.... | 9.3 | ..... | ..... | ..... | ..... | ..... | ..... | 70 | ..... | 16 | 14 | ..... |
| Total | 295.5 | ..... | ..... | ..... | ..... | ..... | 641 | 1366 | 1060 | 529 | 506 | 436.6 |
| Mean. | 9.53 | ..... | ..... | ..... | ..... | ..... | 21.4 | 44.1 | 35.3 | 17.1 | 16.3 | 14.6 |
| Max.. | 12 | ..... | ..... | ..... | ..... | ..... | 35 | 70 | 76 | 23 | 33 | 24 |
| Min.. | 7.8 | ..... | ..... | ..... | ..... | ..... | 12 | 22 | 20 | 14 | 11 | 9.6 |
| Acre-ft. | 586 | ..... | ..... | ..... | ..... | ..... | 1270 | 2710 | 2100 | 1050 | 1000 | 866 |

Total run-off for period=9,580 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ute Creek Near Fort Garland, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | |
|----------|------|--------|-------|-------|-------|-------|------|------|------|------|-------|-------|-------|
| 1.... | 13 | 11 | ..... | ..... | ..... | ..... | 31 | 85 | 48 | 13 | 16 | 6.1 | |
| 2.... | 12 | 11 | ..... | ..... | ..... | ..... | 36 | 87 | 48 | 12 | 18 | 7.0 | |
| 3.... | 11 | 9.8 | ..... | ..... | ..... | ..... | 41 | 85 | 46 | 11 | 20 | 6.1 | |
| 4.... | 15 | ..... | ..... | ..... | ..... | ..... | 43 | 81 | 51 | 9.9 | 26 | 4.5 | |
| 5.... | 15 | ..... | ..... | ..... | ..... | ..... | 40 | 71 | 55 | 9.2 | 26 | 4.2 | |
| 6.... | 14 | ..... | ..... | ..... | ..... | ..... | 42 | 70 | 47 | 8.3 | 26 | 4.0 | |
| 7.... | 20 | ..... | ..... | ..... | ..... | ..... | 37 | 61 | 40 | 7.0 | 19 | 3.7 | |
| 8.... | 25 | ..... | ..... | ..... | ..... | ..... | 39 | 60 | 38 | 6.6 | 29 | 7.9 | |
| 9.... | 23 | ..... | ..... | ..... | ..... | ..... | 44 | 62 | 36 | 12 | 22 | 7.0 | |
| 10.... | 21 | ..... | ..... | ..... | ..... | ..... | 45 | 68 | 36 | 8.8 | 18 | 13 | |
| 11.... | 19 | ..... | ..... | ..... | ..... | ..... | 41 | 67 | 35 | 6.6 | 15 | 15 | |
| 12.... | 18 | ..... | ..... | ..... | ..... | ..... | 42 | 73 | 32 | 5.7 | 12 | 15 | |
| 13.... | 18 | ..... | ..... | ..... | ..... | ..... | 46 | 63 | 29 | 5.2 | 12 | 13 | |
| 14.... | 18 | ..... | ..... | ..... | ..... | ..... | 52 | 58 | 28 | 6.1 | 11 | 14 | |
| 15.... | 18 | ..... | ..... | ..... | ..... | ..... | 53 | 56 | 25 | 6.6 | 7.9 | 30 | |
| 16.... | 19 | ..... | ..... | ..... | ..... | ..... | 48 | 55 | 22 | 7.4 | 7.4 | 27 | |
| 17.... | 21 | ..... | ..... | ..... | ..... | ..... | 42 | 49 | 20 | 6.1 | 5.2 | 23 | |
| 18.... | 19 | ..... | ..... | ..... | ..... | ..... | 38 | 54 | 18 | 5.2 | 4.2 | 20 | |
| 19.... | 18 | ..... | ..... | ..... | ..... | ..... | 40 | 61 | 18 | 5.2 | 3.7 | 17 | |
| 20.... | 16 | ..... | ..... | ..... | ..... | ..... | 43 | 62 | 15 | 4.2 | 4.0 | 15 | |
| 21.... | 16 | ..... | ..... | ..... | ..... | ..... | 49 | 62 | 14 | 4.0 | 4.8 | 14 | |
| 22.... | 15 | ..... | ..... | ..... | ..... | ..... | 61 | 60 | 13 | 4.8 | 4.2 | 13 | |
| 23.... | 15 | ..... | ..... | ..... | ..... | ..... | 65 | 57 | 13 | 5.2 | 4.0 | 11 | |
| 24.... | 13 | ..... | ..... | ..... | ..... | ..... | 65 | 53 | 15 | 4.0 | 3.7 | 11 | |
| 25.... | 14 | ..... | ..... | ..... | ..... | ..... | 63 | 51 | 14 | 3.4 | 4.0 | 9.9 | |
| 26.... | 13 | ..... | ..... | ..... | ..... | ..... | 62 | 47 | 12 | 3.7 | 11 | 9.9 | |
| 27.... | 13 | ..... | ..... | ..... | ..... | ..... | 62 | 42 | 12 | 9.9 | 11 | 9.2 | |
| 28.... | 13 | ..... | ..... | ..... | ..... | ..... | 64 | 42 | 13 | 9.2 | 13 | 7.0 | |
| 29.... | 12 | ..... | ..... | ..... | ..... | ..... | 76 | 46 | 12 | 17 | 8.8 | 6.1 | |
| 30.... | 12 | Nov. 1 | ..... | ..... | ..... | ..... | 26 | 81 | 45 | 13 | 21 | 7.0 | |
| 31.... | 11 | to 3 | ..... | ..... | ..... | ..... | 27 | 44 | 46 | 23 | 7.4 | ..... |  |
| Total | 500 | 31.8 | | | | | 53 | 1492 | 1879 | 818 | 261.3 | 381.3 | 349.7 |
| Mean. | 16.1 | 10.6 | | | | | 26.5 | 49.7 | 60.6 | 27.3 | 8.43 | 12.3 | 11.7 |
| Max... | 25 | 11 | | | | | 27 | 81 | 87 | 55 | 23 | 29 | 30 |
| Min... | 11 | 9.8 | | | | | 26 | 31 | 42 | 12 | 3.4 | 3.7 | 3.7 |
| Acre-ft. | 992 | 63 | | | | | 105 | 2960 | 3730 | 1620 | 518 | 756 | 694 |

Total run-off for period=11,438 acre-feet.

Discharge of Ute Creek Near Ft. Garland, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|
| 1.... | 7.0 | ..... | ..... | ..... | ..... | ..... | 17 | 14 | 51 | 12 | 9.7 | 7.0 |
| 2.... | 6.6 | ..... | ..... | ..... | ..... | ..... | 17 | 13 | 48 | 12 | 10 | 6.5 |
| 3.... | 6.6 | ..... | ..... | ..... | ..... | ..... | 14 | 16 | 45 | 13 | 9.2 | 6.2 |
| 4.... | 6.1 | ..... | ..... | ..... | ..... | ..... | 15 | 21 | 39 | 14 | 8.1 | 5.8 |
| 5.... | 6.1 | ..... | ..... | ..... | ..... | ..... | 16 | 24 | 37 | 16 | 7.6 | 5.1 |
| 6.... | 6.1 | ..... | ..... | ..... | ..... | ..... | 15 | 23 | 32 | 16 | 12 | 4.8 |
| 7.... | 5.7 | ..... | ..... | ..... | ..... | ..... | 15 | 21 | 28 | 13 | 16 | 4.8 |
| 8.... | 7.9 | ..... | ..... | ..... | ..... | ..... | 15 | 29 | 27 | 12 | 14 | 5.1 |
| 9.... | 9.2 | ..... | ..... | ..... | ..... | ..... | 15 | 24 | 24 | 11 | 12 | 4.8 |
| 10.... | 8.3 | ..... | ..... | ..... | ..... | ..... | 15 | 22 | 23 | 10 | 10 | 5.4 |
| 11.... | 7.9 | ..... | ..... | ..... | ..... | ..... | 14 | 26 | 22 | 8.1 | 9.7 | 7.0 |
| 12.... | 7.4 | ..... | ..... | ..... | ..... | ..... | 13 | 27 | 20 | 6.2 | 9.2 | 6.2 |
| 13.... | 7.4 | ..... | ..... | ..... | ..... | ..... | 16 | 28 | 20 | 8.6 | 8.1 | 5.4 |
| 14.... | 7.4 | ..... | ..... | ..... | ..... | ..... | 18 | 31 | 17 | 11 | 5.4 | 6.2 |
| 15.... | 7.9 | ..... | ..... | ..... | ..... | ..... | 21 | 34 | 17 | 10 | 4.4 | 6.2 |
| 16.... | 7.4 | ..... | ..... | ..... | ..... | ..... | 22 | 40 | 19 | 9.7 | 2.9 | 5.4 |
| 17.... | 5.2 | ..... | ..... | ..... | ..... | ..... | 20 | 61 | 18 | 11 | 5.4 | 6.5 |
| 18.... | 4.8 | ..... | ..... | ..... | ..... | ..... | 20 | 55 | 17 | 10 | 5.1 | 11 |
| 19.... | 5.7 | ..... | ..... | ..... | ..... | ..... | 22 | 41 | 16 | 9.7 | 7.0 | 14 |
| 20.... | 5.7 | ..... | ..... | ..... | ..... | ..... | 24 | 34 | 16 | 9.7 | 7.6 | 14 |
| 21.... | 5.7 | ..... | ..... | ..... | ..... | ..... | 27 | 39 | 20 | 11 | 6.2 | 14 |
| 22.... | 6.1 | ..... | ..... | ..... | ..... | ..... | 28 | 35 | 24 | 17 | 6.5 | 20 |
| 23.... | 6.6 | ..... | ..... | ..... | ..... | ..... | 28 | 31 | 20 | 13 | 21 | 20 |
| 24.... | 6.6 | ..... | ..... | ..... | ..... | ..... | 28 | 31 | 17 | 11 | 24 | 18 |
| 25.... | 6.6 | ..... | ..... | ..... | ..... | ..... | 28 | 33 | 15 | 8.6 | 24 | 17 |
| 26.... | 6.6 | ..... | ..... | ..... | ..... | ..... | 28 | 36 | 15 | 8.6 | 17 | 18 |
| 27.... | 6.6 | ..... | ..... | ..... | ..... | ..... | 31 | 34 | 12 | 8.6 | 17 | 17 |
| 28.... | 5.7 | ..... | ..... | ..... | ..... | ..... | 25 | 36 | 12 | 8.1 | 15 | 16 |
| 29.... | 6.1 | ..... | ..... | ..... | ..... | ..... | 23 | 40 | 13 | 7.6 | 12 | 15 |
| 30.... | 7.0 | ..... | ..... | ..... | ..... | ..... | 18 | 41 | 13 | 9.2 | 11 | 15 |
| 31.... | 7.0 | ..... | ..... | ..... | ..... | ..... | 16 | 44 | ..... | 10 | 9.2 | ..... |
| Total | 207.0 | ..... | ..... | ..... | ..... | ..... | 608 | 984 | 697 | 335.7 | 336.3 | 307.4 |
| Mean. | 6.68 | ..... | ..... | ..... | ..... | ..... | 20.3 | 31.7 | 23.2 | 10.8 | 10.8 | 10.2 |
| Max... | 9.2 | ..... | ..... | ..... | ..... | ..... | 31 | 61 | 51 | 17 | 24 | 20 |
| Min... | 4.8 | ..... | ..... | ..... | ..... | ..... | 13 | 13 | 12 | 6.2 | 2.9 | 4.8 |
| Acre-ft. | 411 | ..... | ..... | ..... | ..... | ..... | 1210 | 1950 | 1380 | 666 | 667 | 610 |

Total run-off for period=6,890 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Conejos River at Platoro, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|------|------|------|------|-------|-------|------|-------|-------|
| 1.... | 25 | 27 | .... | .... | .... | .... | 50 | 336 | 438 | 67 | 32 | 15 |
| 2.... | 24 | 16 | .... | .... | .... | .... | 56 | 368 | 463 | 60 | 27 | 14 |
| 3.... | 24 | 25 | .... | .... | .... | .... | 70 | 319 | 509 | 58 | 24 | 11 |
| 4.... | 25 | 37 | .... | .... | .... | .... | 68 | 363 | 573 | 56 | 21 | 10 |
| 5.... | 25 | 25 | .... | .... | .... | .... | 66 | 429 | 524 | 56 | 22 | 11 |
| 6.... | 32 | 28 | .... | .... | .... | .... | 62 | 400 | 377 | 51 | 31 | 19 |
| 7.... | 62 | 40 | .... | .... | .... | .... | 60 | 328 | 314 | 44 | 31 | 22 |
| 8.... | 71 | 36 | .... | .... | .... | .... | 64 | 363 | 328 | 42 | 23 | 51 |
| 9.... | 56 | 25 | .... | .... | .... | .... | 71 | 429 | 319 | 44 | 17 | 67 |
| 10.... | 54 | 16 | .... | .... | .... | .... | 70 | 478 | 332 | 39 | 16 | 53 |
| 11.... | 53 | 17 | .... | .... | .... | .... | 68 | 478 | 314 | 35 | 14 | 148 |
| 12.... | 49 | 8.0 | .... | .... | .... | .... | 71 | 395 | 297 | 34 | 11 | 115 |
| 13.... | 54 | 8 | .... | .... | .... | .... | 80 | 350 | 293 | 24 | 11 | 123 |
| 14.... | 62 | 15 | .... | .... | .... | .... | 76 | 372 | 260 | 24 | 10 | 186 |
| 15.... | 70 | 19 | .... | .... | .... | .... | 71 | 350 | 228 | 25 | 9.0 | 206 |
| 16.... | 105 | 20 | .... | .... | .... | .... | 71 | 289 | 192 | 25 | 9.0 | 140 |
| 17.... | 88 | 17 | .... | .... | .... | .... | 73 | 256 | 166 | 22 | 9.5 | 112 |
| 18.... | 70 | 14 | .... | .... | .... | .... | 65 | 386 | 146 | 20 | 10 | 90 |
| 19.... | 67 | 15 | .... | .... | .... | .... | 69 | 509 | 110 | 18 | 9.0 | 80 |
| 20.... | 67 | 15 | .... | .... | .... | .... | 80 | 524 | 94 | 18 | 8.0 | 67 |
| 21.... | 65 | 16 | .... | .... | .... | .... | 120 | 524 | 94 | 16 | 11 | 58 |
| 22.... | 56 | 13 | .... | .... | .... | .... | 154 | 519 | 102 | 17 | 13 | 51 |
| 23.... | 53 | 10 | .... | .... | .... | .... | 157 | 488 | 107 | 17 | 9.5 | 45 |
| 24.... | 49 | 7 | .... | .... | .... | .... | 131 | 414 | 102 | 16 | 9.0 | 39 |
| 25.... | 45 | 8 | .... | .... | .... | .... | 134 | 328 | 90 | 14 | 16 | 40 |
| 26.... | 42 | 8 | .... | .... | .... | .... | 146 | 281 | 82 | 14 | 15 | 53 |
| 27.... | 39 | 9 | .... | .... | .... | .... | 189 | 359 | 78 | 20 | 20 | 65 |
| 28.... | 36 | 8 | .... | .... | .... | .... | 236 | 400 | 76 | 30 | 31 | 49 |
| 29.... | 31 | 8 | .... | .... | .... | .... | 302 | 414 | 78 | 40 | 26 | 49 |
| 30.... | 31 | 8 | .... | .... | .... | .... | 319 | 380 | 73 | 58 | 18 | 42 |
| 31.... | 30 | .... | .... | .... | .... | .... | .... | 395 | .... | 51 | 17 | .... |
| Total | 1560 | 518.0 | .... | .... | .... | .... | 3249 | 12224 | 7159 | 1055 | 530.0 | 2031 |
| Mean. | 50.3 | 17.3 | .... | .... | .... | .... | 108 | 394 | 239 | 34.0 | 17.1 | 67.7 |
| Max.. | 105 | 40 | .... | .... | .... | .... | 319 | 524 | 573 | 67 | 32 | 206 |
| Min.. | 24 | 7 | .... | .... | .... | .... | 50 | 256 | 73 | 14 | 8.0 | 10 |
| Acre-ft. | 3090 | 1030 | .... | .... | .... | .... | 6440 | 24250 | 14200 | 2090 | 1050 | 4030 |

Total run-off for period=56,180 acre-feet.

Discharge of Conejos River at Platoro, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|--------|------|------|------|------|-------|-------|------|-------|-------|
| 1.... | 37 | 18 | 13 | .... | .... | .... | 46 | 90 | 546 | 77 | 18 | 27 |
| 2.... | 35 | 19 | 13 | .... | .... | .... | 42 | 124 | 480 | 69 | 16 | 24 |
| 3.... | 31 | 19 | 13 | .... | .... | .... | 37 | 202 | 441 | 61 | 14 | 28 |
| 4.... | 28 | 18 | 14 | .... | .... | .... | 35 | 279 | 417 | 60 | 11 | 26 |
| 5.... | 25 | 19 | 11 | .... | .... | .... | 37 | 317 | 384 | 56 | 12 | 21 |
| 6.... | 24 | 19 | 16 | .... | .... | .... | 30 | 348 | 352 | 56 | 18 | 20 |
| 7.... | 23 | 17 | 17 | .... | .... | .... | 37 | 375 | 326 | 56 | 21 | 24 |
| 8.... | 28 | 16 | 14 | .... | .... | .... | 37 | 321 | 313 | 48 | 18 | 28 |
| 9.... | 30 | 16 | 7.5 | .... | .... | .... | 40 | 313 | 268 | 42 | 15 | 20 |
| 10.... | 27 | 16 | 9.0 | .... | .... | .... | 40 | 375 | 248 | 40 | 12 | 21 |
| 11.... | 26 | 17 | 8.0 | .... | .... | .... | 45 | 370 | 237 | 36 | 12 | 21 |
| 12.... | 26 | 16 | .... | .... | .... | .... | 56 | 352 | 218 | 34 | 11 | 19 |
| 13.... | 25 | 16 | .... | .... | .... | .... | 69 | 441 | 218 | 37 | 10 | 39 |
| 14.... | 24 | 19 | .... | .... | .... | .... | 99 | 485 | 237 | 34 | 9.6 | 29 |
| 15.... | 23 | 19 | .... | .... | .... | .... | 108 | 531 | 221 | 32 | 10 | 29 |
| 16.... | 22 | 20 | .... | .... | .... | .... | 88 | 541 | 191 | 39 | 17 | 23 |
| 17.... | 20 | 20 | .... | .... | .... | .... | 67 | 485 | 183 | 30 | 13 | 27 |
| 18.... | 19 | 20 | .... | .... | .... | .... | 71 | 375 | 172 | 28 | 10 | 75 |
| 19.... | 18 | 18 | .... | .... | .... | .... | 102 | 308 | 159 | 27 | 13 | 90 |
| 20.... | 16 | 17 | .... | .... | .... | .... | 153 | 275 | 146 | 24 | 24 | 65 |
| 21.... | 16 | 17 | .... | .... | .... | .... | 187 | 252 | 135 | 27 | 44 | 56 |
| 22.... | 15 | 17 | .... | .... | .... | .... | 218 | 244 | 121 | 26 | 37 | 56 |
| 23.... | 14 | 18 | .... | .... | .... | .... | 260 | 248 | 111 | 21 | 36 | 48 |
| 24.... | 14 | 18 | .... | .... | .... | .... | 233 | 291 | 118 | 20 | 56 | 47 |
| 25.... | 14 | 15 | .... | .... | .... | .... | 176 | 308 | 118 | 18 | 54 | 48 |
| 26.... | 12 | 11 | .... | .... | .... | .... | 191 | 362 | 102 | 24 | 47 | 45 |
| 27.... | 11 | 8.0 | .... | .... | .... | .... | 166 | 441 | 88 | 28 | 45 | 40 |
| 28.... | 16 | 11 | .... | .... | .... | .... | 121 | 475 | 82 | 24 | 37 | 40 |
| 29.... | 17 | 11 | .... | .... | .... | .... | 99 | 506 | 80 | 24 | 36 | 48 |
| 30.... | 16 | 12 | Dec. 1 | .... | .... | .... | 88 | 531 | 88 | 23 | 30 | 58 |
| 31.... | 17 | .... | to 11 | .... | .... | .... | .... | 572 | .... | 19 | 28 | .... |
| Total | 669 | 497.0 | 135.5 | .... | .... | .... | 2978 | 11137 | 6800 | 1140 | 734.6 | 1142 |
| Mean. | 21.6 | 16.6 | 12.3 | .... | .... | .... | 99.3 | 359 | 227 | 36.8 | 23.7 | 38.1 |
| Max.. | 37 | 20 | 17 | .... | .... | .... | 260 | 572 | 546 | 77 | 56 | 90 |
| Min.. | 11 | 8.0 | 7.5 | .... | .... | .... | 30 | 90 | 80 | 18 | 9.6 | 19 |
| Acre-ft. | 1330 | 986 | 269 | .... | .... | .... | 5910 | 22090 | 13490 | 2260 | 1460 | 2270 |

Total run-off for period=50,060 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Conejos River Near Mogote, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|-------|------|------|-------|
| 1.... | 92 | 94 | 65 | 58 | 52 | 54 | 180 | 790 | 1060 | 209 | 133 | 54 |
| 2.... | 88 | 106 | 57 | 60 | 56 | 52 | 220 | 885 | 1060 | 194 | 127 | 51 |
| 3.... | 88 | 88 | 45 | 62 | 58 | 54 | 250 | 809 | 1060 | 180 | 99 | 48 |
| 4.... | 86 | 94 | 59 | 62 | 58 | 54 | 285 | 885 | 1180 | 170 | 88 | 44 |
| 5.... | 94 | 113 | 52 | 55 | 58 | 54 | 230 | 896 | 1250 | 160 | 73 | 43 |
| 6.... | 101 | 90 | 48 | 57 | 58 | 54 | 230 | 1340 | 1030 | 150 | 86 | 51 |
| 7.... | 150 | 74 | 54 | 60 | 58 | 54 | 190 | 1110 | 754 | 136 | 107 | 57 |
| 8.... | 300 | 76 | 55 | 60 | 60 | 56 | 210 | 1120 | 745 | 127 | 130 | 56 |
| 9.... | 240 | 110 | 47 | 60 | 58 | 56 | 270 | 1230 | 709 | 127 | 88 | 88 |
| 10.... | 216 | 94 | 63 | 55 | 58 | 56 | 270 | 1380 | 692 | 114 | 73 | 138 |
| 11.... | 202 | 86 | 56 | 50 | 54 | 58 | 230 | 1450 | 700 | 104 | 68 | 173 |
| 12.... | 180 | 70 | 56 | 48 | 50 | 58 | 240 | 1350 | 676 | 95 | 62 | 232 |
| 13.... | 160 | 57 | 47 | 45 | 52 | 60 | 300 | 1100 | 644 | 86 | 61 | 198 |
| 14.... | 175 | 73 | 35 | 45 | 50 | 64 | 346 | 1160 | 612 | 83 | 65 | 232 |
| 15.... | 190 | 70 | 63 | 47 | 48 | 68 | 292 | 1120 | 548 | 86 | 56 | 383 |
| 16.... | 230 | 84 | 76 | 50 | 50 | 72 | 232 | 1070 | 470 | 97 | 53 | 316 |
| 17.... | 250 | 80 | 59 | 50 | 50 | 76 | 198 | 885 | 416 | 86 | 53 | 253 |
| 18.... | 240 | 70 | 42 | 50 | 50 | 84 | 190 | 990 | 383 | 73 | 56 | 224 |
| 19.... | 220 | 74 | 50 | 50 | 52 | 99 | 224 | 1320 | 326 | 69 | 53 | 190 |
| 20.... | 190 | 68 | 55 | 50 | 50 | 150 | 279 | 1450 | 302 | 66 | 51 | 173 |
| 21.... | 185 | 73 | 55 | 52 | 48 | 180 | 372 | 1380 | 274 | 62 | 62 | 147 |
| 22.... | 176 | 68 | 55 | 54 | 46 | 220 | 458 | 1340 | 279 | 62 | 64 | 133 |
| 23.... | 163 | 56 | 46 | 50 | 48 | 253 | 498 | 1320 | 284 | 63 | 60 | 121 |
| 24.... | 150 | 43 | 50 | 48 | 52 | 270 | 410 | 1180 | 284 | 63 | 53 | 109 |
| 25.... | 138 | 55 | 55 | 46 | 54 | 213 | 367 | 1010 | 270 | 58 | 49 | 102 |
| 26.... | 132 | 56 | 55 | 48 | 54 | 224 | 416 | 800 | 257 | 57 | 54 | 107 |
| 27.... | 126 | 63 | 55 | 50 | 52 | 225 | 452 | 847 | 240 | 78 | 61 | 147 |
| 28.... | 118 | 56 | 55 | 52 | 52 | 190 | 564 | 980 | 240 | 90 | 69 | 136 |
| 29.... | 113 | 56 | 56 | 48 | .... | 165 | 700 | 1000 | 224 | 119 | 78 | 121 |
| 30.... | 113 | 66 | 58 | 48 | .... | 150 | 745 | 1030 | 220 | 132 | 69 | 114 |
| 31.... | 106 | .... | 58 | 50 | .... | 150 | .... | 916 | .... | 213 | 61 | .... |
| Total | 5012 | 2263 | 1682 | 1620 | 1486 | 3573 | 9848 | 34143 | 17189 | 3409 | 2262 | 4241 |
| Mean... | 162 | 75.4 | 54.3 | 52.3 | 53.1 | 115 | 328 | 1101 | 573 | 110 | 73.0 | 141 |
| Max... | 300 | 113 | 76 | 62 | 60 | 270 | 745 | 1450 | 1250 | 213 | 133 | 383 |
| Min... | 86 | 43 | 35 | 45 | 46 | 52 | 180 | 790 | 220 | 57 | 49 | 43 |
| Acre-ft. | 9940 | 4490 | 3340 | 3210 | 2950 | 7090 | 19530 | 67720 | 34090 | 6760 | 4490 | 8410 |

Total run-off for water year 1938-39=172,000 acre-feet.

Discharge of Conejos River Near Mogote, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|-------|------|------|-------|
| 1.... | 104 | 64 | 44 | 37 | 56 | 50 | 202 | 341 | 1310 | 209 | 69 | 81 |
| 2.... | 93 | 63 | 47 | 36 | 54 | 44 | 187 | 410 | 1210 | 187 | 65 | 73 |
| 3.... | 88 | 63 | 48 | 38 | 52 | 45 | 144 | 564 | 1090 | 170 | 64 | 81 |
| 4.... | 81 | 61 | 48 | 37 | 50 | 43 | 147 | 754 | 990 | 160 | 57 | 76 |
| 5.... | 78 | 61 | 47 | 37 | 50 | 48 | 157 | 800 | 938 | 163 | 53 | 71 |
| 6.... | 73 | 63 | 46 | 35 | 46 | 50 | 144 | 876 | 876 | 173 | 63 | 64 |
| 7.... | 72 | 60 | 45 | 33 | 50 | 44 | 141 | 948 | 809 | 141 | 78 | 62 |
| 8.... | 79 | 56 | 46 | 38 | 50 | 48 | 136 | 980 | 727 | 141 | 79 | 72 |
| 9.... | 92 | 63 | 45 | 39 | 50 | 50 | 150 | 828 | 700 | 127 | 66 | 69 |
| 10.... | 84 | 64 | 44 | 40 | 50 | 52 | 160 | 958 | 572 | 124 | 56 | 65 |
| 11.... | 78 | 55 | 43 | 39 | 48 | 50 | 157 | 1030 | 548 | 121 | 54 | 71 |
| 12.... | 76 | 55 | 44 | 39 | 46 | 46 | 173 | 1020 | 491 | 111 | 50 | 76 |
| 13.... | 73 | 56 | 40 | 43 | 40 | 44 | 216 | 1160 | 464 | 144 | 47 | 83 |
| 14.... | 71 | 53 | 37 | 35 | 42 | 35 | 306 | 1220 | 470 | 124 | 44 | 88 |
| 15.... | 69 | 50 | 37 | 39 | 44 | 35 | 383 | 1310 | 477 | 109 | 43 | 76 |
| 16.... | 66 | 49 | 36 | 43 | 44 | 45 | 346 | 1420 | 440 | 109 | 44 | 73 |
| 17.... | 64 | 49 | 34 | 44 | 42 | 65 | 288 | 1440 | 399 | 104 | 49 | 71 |
| 18.... | 63 | 50 | 35 | 45 | 44 | 79 | 257 | 1210 | 388 | 93 | 45 | 127 |
| 19.... | 62 | 53 | 20 | 45 | 46 | 86 | 297 | 927 | 367 | 92 | 44 | 194 |
| 20.... | 51 | 53 | 20 | 46 | 48 | 88 | 372 | 876 | 341 | 90 | 65 | 187 |
| 21.... | 58 | 54 | 20 | 48 | 48 | 107 | 498 | 809 | 331 | 86 | 99 | 150 |
| 22.... | 56 | 54 | 21 | 51 | 48 | 141 | 548 | 838 | 316 | 95 | 99 | 144 |
| 23.... | 55 | 53 | 22 | 53 | 48 | 183 | 644 | 866 | 288 | 92 | 102 | 138 |
| 24.... | 53 | 53 | 20 | 54 | 48 | 220 | 709 | 948 | 284 | 78 | 163 | 124 |
| 25.... | 53 | 51 | 25 | 55 | 48 | 284 | 636 | 948 | 288 | 72 | 173 | 127 |
| 26.... | 63 | 51 | 26 | 57 | 52 | 326 | 636 | 1000 | 266 | 72 | 133 | 127 |
| 27.... | 55 | 54 | 26 | 56 | 50 | 341 | 676 | 1140 | 240 | 150 | 141 | 116 |
| 28.... | 51 | 50 | 26 | 56 | 48 | 266 | 505 | 1220 | 228 | 104 | 114 | 107 |
| 29.... | 58 | 44 | 32 | 55 | 47 | 209 | 422 | 1260 | 224 | 90 | 109 | 109 |
| 30.... | 57 | 46 | 34 | 56 | .... | 190 | 367 | 1270 | 228 | 95 | 97 | 133 |
| 31.... | 62 | .... | 37 | 55 | .... | 198 | .... | 1250 | .... | 79 | 84 | .... |
| Total | 2138 | 1651 | 1095 | 1384 | 1389 | 3512 | 10004 | 30621 | 16300 | 3705 | 2449 | 3035 |
| Mean... | 69.0 | 55.0 | 35.3 | 44.6 | 47.9 | 113 | 333 | 988 | 543 | 120 | 79.0 | 101 |
| Max... | 104 | 64 | 48 | 57 | 56 | 341 | 709 | 1440 | 1310 | 209 | 173 | 194 |
| Min... | 51 | 44 | 20 | 33 | 40 | 35 | 136 | 341 | 224 | 72 | 43 | 62 |
| Acre-ft. | 4240 | 3270 | 2170 | 2750 | 2760 | 6970 | 19840 | 60740 | 32330 | 7350 | 4860 | 6026 |

Total run-off for water year 1939-40=153,300 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Conejos River Near Las Sauses, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|------|-------|-------|-------|-------|-------|------|------|-------|
| 1..... | 28 | 63 | 62 | 68 | 95 | 84 | 223 | 872 | 66 | 0.6 | 1.5 | 1.0 |
| 2..... | 25 | 48 | 64 | 68 | 102 | 84 | 251 | 958 | 65 | 0.6 | 1.7 | 1.0 |
| 3..... | 24 | 70 | 67 | 67 | 98 | 84 | 302 | 936 | 60 | 0.6 | 4.3 | 1.2 |
| 4..... | 27 | 66 | 67 | 72 | 98 | 84 | 363 | 837 | 54 | 0.6 | 4.5 | 1.3 |
| 5..... | 26 | 66 | 68 | 73 | 93 | 84 | 390 | 795 | 100 | 0.6 | 4.1 | 1.5 |
| 6..... | 26 | 66 | 71 | 70 | 95 | 84 | 296 | 829 | 135 | 0.6 | 3.8 | 1.7 |
| 7..... | 29 | 61 | 70 | 69 | 95 | 84 | 289 | 844 | 96 | 0.6 | 4.3 | 1.9 |
| 8..... | 54 | 60 | 71 | 72 | 95 | 84 | 227 | 707 | 55 | 0.6 | 4.3 | 2.1 |
| 9..... | 112 | 66 | 74 | 76 | 97 | 84 | 209 | 674 | 29 | 0.6 | 3.7 | 2.1 |
| 10..... | 106 | 76 | 74 | 75 | 96 | 90 | 261 | 680 | 29 | 0.6 | 3.5 | 1.5 |
| 11..... | 102 | 78 | 75 | 75 | 81 | 95 | 261 | 687 | 22 | 0.6 | 3.4 | 1.7 |
| 12..... | 100 | 74 | 80 | 78 | 78 | 105 | 211 | 643 | 15 | 0.6 | 2.8 | 1.7 |
| 13..... | 95 | 70 | 78 | 78 | 78 | 119 | 207 | 540 | 5.0 | 0.9 | 1.5 | 2.8 |
| 14..... | 94 | 66 | 75 | 80 | 76 | 155 | 252 | 494 | 2.7 | 0.9 | 0.9 | 4.3 |
| 15..... | 94 | 65 | 70 | 80 | 76 | 169 | 271 | 514 | 1.7 | 0.9 | 1.1 | 4.8 |
| 16..... | 101 | 71 | 69 | 80 | 73 | 172 | 234 | 484 | 1.2 | 0.9 | 1.3 | 6.9 |
| 17..... | 128 | 70 | 81 | 78 | 75 | 177 | 182 | 429 | 1.2 | 0.9 | 1.1 | 7.8 |
| 18..... | 138 | 69 | 80 | 78 | 73 | 186 | 153 | 340 | 1.2 | 0.9 | 0.9 | 7.6 |
| 19..... | 115 | 69 | 78 | 78 | 73 | 217 | 127 | 308 | 1.2 | 0.9 | 1.3 | 8.4 |
| 20..... | 103 | 70 | 87 | 78 | 73 | 277 | 125 | 355 | 2.2 | 0.9 | 1.1 | 7.2 |
| 21..... | 99 | 74 | 87 | 73 | 77 | 338 | 138 | 415 | 3.8 | 0.9 | 1.4 | 5.9 |
| 22..... | 99 | 73 | 83 | 78 | 78 | 364 | 215 | 406 | 3.8 | 0.9 | 1.3 | 6.9 |
| 23..... | 96 | 70 | 82 | 75 | 78 | 412 | 345 | 355 | 1.4 | 0.9 | 1.1 | 7.9 |
| 24..... | 93 | 70 | 82 | 76 | 75 | 466 | 424 | 295 | 1.0 | 0.9 | 1.2 | 8.0 |
| 25..... | 88 | 68 | 77 | 77 | 75 | 417 | 322 | 252 | 1.0 | 0.9 | 1.0 | 9.3 |
| 26..... | 78 | 61 | 73 | 82 | 75 | 378 | 300 | 230 | 1.0 | 0.9 | 1.0 | 11 |
| 27..... | 77 | 60 | 73 | 83 | 77 | 391 | 365 | 194 | 1.0 | 2.1 | 1.2 | 11 |
| 28..... | 76 | 56 | 71 | 81 | 85 | 355 | 449 | 156 | 0.6 | 3.1 | 1.0 | 10 |
| 29..... | 72 | 57 | 66 | 79 | ..... | 292 | 566 | 128 | 0.6 | 2.9 | 1.0 | 9.9 |
| 30..... | 68 | 56 | 66 | 79 | ..... | 254 | 733 | 108 | 0.6 | 2.1 | 1.0 | 9.4 |
| 31..... | 65 | ..... | 66 | 75 | ..... | 226 | ..... | 88 | ..... | 1.7 | 1.0 | ..... |
| Total | 2438 | 2010 | 2287 | 2351 | 2340 | 6411 | 8691 | 15563 | 767.2 | 31.7 | 63.3 | 157.8 |
| Mean. | 78.6 | 67.0 | 73.8 | 75.8 | 83.6 | 207 | 290 | 502 | 25.6 | 1.02 | 2.04 | 5.26 |
| Max... | 138 | 78 | 87 | 83 | 102 | 466 | 733 | 958 | 135 | 3.1 | 4.5 | 11.0 |
| Min... | 24 | 56 | 62 | 67 | 73 | 84 | 125 | 88 | 0.6 | 0.6 | 0.9 | 1.0 |
| Acre-ft. | 4840 | 3990 | 4540 | 4660 | 4640 | 12720 | 17240 | 30870 | 1520 | 63 | 126 | 313 |

Total run-off for water year 1938-39=85,520 acre-feet.

Discharge of Conejos River Near Las Sauses, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|------|------|-------|------|--------|-------|--------|------|------|-------|
| 1..... | 9.4 | 37 | 40 | 54 | 71 | 89 | 32 | 36 | 563 | 3.6 | 1.2 | 0.1 |
| 2..... | 8.8 | 38 | 40 | 53 | 71 | 84 | 26 | 26 | 458 | 3.6 | 1.4 | 0.1 |
| 3..... | 8.2 | 37 | 39 | 52 | 70 | 82 | 18 | 30 | 351 | 3.4 | 1.6 | 0.4 |
| 4..... | 7.4 | 36 | 39 | 52 | 69 | 80 | 17 | 46 | 186 | 2.8 | 1.4 | 0.4 |
| 5..... | 6.4 | 37 | 39 | 52 | 72 | 75 | 18 | 65 | 91 | 2.7 | 1.6 | 0.2 |
| 6..... | 6.5 | 37 | 38 | 56 | 69 | 67 | 19 | 57 | 50 | 3.6 | 2.5 | 0.2 |
| 7..... | 6.5 | 37 | 39 | 54 | 70 | 62 | 17 | 58 | 23 | 2.9 | 1.4 | 0.2 |
| 8..... | 6.5 | 37 | 43 | 54 | 70 | 68 | 16 | 76 | 14 | 2.1 | 0.3 | 0.8 |
| 9..... | 7.2 | 34 | 43 | 52 | 66 | 68 | 7.9 | 90 | 12 | 1.6 | 0.1 | 1.0 |
| 10..... | 7.6 | 36 | 44 | 52 | 66 | 66 | 3.1 | 56 | 10 | 1.4 | 0.2 | 1.0 |
| 11..... | 10 | 35 | 45 | 53 | 66 | 66 | 2.8 | 43 | 8.0 | 1.4 | 0.3 | 1.0 |
| 12..... | 18 | 34 | 46 | 56 | 67 | 67 | 2.4 | 51 | 5.1 | 1.2 | 0.7 | 1.4 |
| 13..... | 18 | 35 | 44 | 60 | 65 | 63 | 3.7 | 73 | 4.5 | 0.6 | 0.7 | 5.7 |
| 14..... | 18 | 35 | 44 | 54 | 65 | 63 | 4.6 | 128 | 4.3 | 0.6 | 0.3 | 14 |
| 15..... | 18 | 37 | 46 | 51 | 65 | 63 | 32 | 144 | 4.2 | 0.4 | 0.3 | 15 |
| 16..... | 18 | 37 | 46 | 54 | 64 | 63 | 85 | 184 | 4.2 | 0.6 | 0.3 | 15 |
| 17..... | 19 | 37 | 46 | 61 | 61 | 61 | 69 | 276 | 4.5 | 0.4 | 0.3 | 16 |
| 18..... | 19 | 37 | 47 | 68 | 61 | 59 | 30 | 902 | 4.5 | 0.4 | 0.3 | 16 |
| 19..... | 20 | 37 | 46 | 56 | 61 | 59 | 22 | 856 | 4.7 | 0.4 | 0.3 | 16 |
| 20..... | 20 | 37 | 46 | 61 | 61 | 59 | 18 | 569 | 4.7 | 0.4 | 0.5 | 16 |
| 21..... | 20 | 37 | 46 | 65 | 61 | 60 | 18 | 378 | 4.7 | 0.3 | 0.9 | 16 |
| 22..... | 19 | 38 | 48 | 60 | 61 | 56 | 61 | 366 | 4.4 | 0.3 | 0.5 | 16 |
| 23..... | 20 | 39 | 49 | 54 | 60 | 44 | 101 | 433 | 4.4 | 0.2 | 0.6 | 16 |
| 24..... | 20 | 40 | 51 | 54 | 63 | 43 | 135 | 451 | 3.8 | 0.2 | 1.2 | 17 |
| 25..... | 20 | 40 | 51 | 60 | 64 | 41 | 168 | 441 | 3.5 | 0.2 | 1.2 | 18 |
| 26..... | 22 | 41 | 51 | 58 | 68 | 33 | 120 | 440 | 3.3 | 0.2 | 0.6 | 17 |
| 27..... | 23 | 41 | 54 | 61 | 71 | 62 | 129 | 506 | 3.4 | 0.2 | 0.3 | 17 |
| 28..... | 33 | 40 | 54 | 63 | 77 | 92 | 119 | 563 | 3.6 | 0.2 | 0.3 | 17 |
| 29..... | 35 | 40 | 52 | 64 | 84 | 62 | 74 | 588 | 3.6 | 0.2 | 0.3 | 17 |
| 30..... | 35 | 41 | 52 | 64 | ..... | 45 | 46 | 594 | 3.8 | 0.3 | 0.3 | 17 |
| 31..... | 36 | ..... | 52 | 68 | ..... | 37 | ..... | 591 | ..... | 1.8 | 0.2 | ..... |
| Total | 535.5 | 1124 | 1420 | 1776 | 1939 | 1939 | 1414.5 | 9117 | 1845.2 | 38.2 | 22.1 | 288.5 |
| Mean. | 17.3 | 37.5 | 45.8 | 57.3 | 66.9 | 62.5 | 47.2 | 294 | 61.5 | 1.23 | 0.71 | 9.62 |
| Max... | 36 | 41 | 54 | 68 | 84 | 92 | 168 | 902 | 563 | 3.6 | 2.5 | 18 |
| Min... | 6.4 | 34 | 38 | 51 | 60 | 33 | 2.4 | 26 | 3.3 | 0.2 | 0.1 | 0.1 |
| Acre-ft. | 1060 | 2230 | 2820 | 3520 | 3850 | 3850 | 2810 | 18080 | 3660 | 76 | 44 | 572 |

Total run-off for water year 1939-40=42,570 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of San Antonio River at Ortiz, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|-------|----------------|-------|-------|-------|---------|------|-------|------|------|-------|-------|
| 1..... | 2.3 | 3.8 | ..... | ..... | ..... | ..... | 77 | 238 | 10 | 0.4 | 1.7 | 0.9 |
| 2..... | 2.3 | 4.4 | ..... | ..... | ..... | ..... | 105 | 215 | 9.7 | 0.4 | 0.8 | 1.2 |
| 3..... | 3.2 | 4.4 | ..... | ..... | ..... | ..... | 117 | 181 | 8.6 | 0.2 | 0.4 | 0.5 |
| 4..... | 2.9 | ..... | ..... | ..... | ..... | ..... | 132 | 176 | 9.2 | 0.2 | 0.1 | 0.3 |
| 5..... | 3.5 | ..... | ..... | ..... | ..... | ..... | 83 | 150 | 9.2 | 0.1 | 0.2 | 0.2 |
| 6..... | 3.8 | ..... | ..... | ..... | ..... | ..... | 89 | 148 | 8.6 | 0.1 | 0.2 | 0.1 |
| 7..... | 3.5 | ..... | ..... | ..... | ..... | ..... | 50 | 122 | 6.3 | 0.1 | 0.2 | 1.1 |
| 8..... | 40 | ..... | ..... | ..... | ..... | ..... | 50 | 107 | 5.1 | 0 | 0.4 | 1.6 |
| 9..... | 18 | ..... | ..... | ..... | ..... | ..... | 91 | 98 | 3.4 | 0 | 0.2 | 0.8 |
| 10..... | 9.0 | ..... | ..... | ..... | ..... | ..... | 91 | 91 | 2.2 | 0 | 0.1 | 1.6 |
| 11..... | 5.4 | ..... | ..... | ..... | ..... | ..... | 56 | 80 | 1.9 | 0 | 0.1 | 8.0 |
| 12..... | 4.4 | ..... | ..... | ..... | ..... | ..... | 64 | 81 | 1.1 | 0 | 0.1 | 3.4 |
| 13..... | 3.2 | ..... | ..... | ..... | ..... | ..... | 104 | 69 | 0.6 | 0 | 0.1 | 1.6 |
| 14..... | 3.2 | ..... | ..... | ..... | ..... | ..... | 104 | 58 | 0.5 | 0 | 0 | 0.9 |
| 15..... | 3.2 | ..... | ..... | ..... | ..... | ..... | 78 | 51 | 0.4 | 0 | 0 | 0.8 |
| 16..... | 3.2 | ..... | ..... | ..... | ..... | ..... | 56 | 47 | 0.3 | 0 | 0 | 1.9 |
| 17..... | 3.5 | ..... | ..... | ..... | ..... | ..... | 51 | 39 | 0.2 | 0 | 0 | 2.6 |
| 18..... | 3.2 | ..... | ..... | ..... | ..... | ..... | 52 | 36 | 0.1 | 0 | 0 | 3.0 |
| 19..... | 2.3 | ..... | ..... | ..... | ..... | ..... | 81 | 33 | 0.1 | 0 | 0 | 1.6 |
| 20..... | 2.6 | ..... | ..... | ..... | ..... | ..... | 111 | 30 | 0.1 | 0 | 0 | 1.2 |
| 21..... | 2.9 | ..... | ..... | ..... | ..... | ..... | 157 | 27 | 0.1 | 0 | 0 | 0.5 |
| 22..... | 3.5 | ..... | ..... | ..... | ..... | Mar. 24 | 210 | 24 | 0.1 | 0 | 0.1 | 0.2 |
| 23..... | 4.1 | ..... | ..... | ..... | ..... | to 31 | 212 | 22 | 0 | 0 | 0.1 | 0.1 |
| 24..... | 4.1 | ..... | ..... | ..... | ..... | ..... | 273 | 152 | 1.9 | 0.1 | 0 | 0.3 |
| 25..... | 3.8 | ..... | ..... | ..... | ..... | ..... | 195 | 145 | 1.8 | 0.1 | 0 | 3.4 |
| 26..... | 3.8 | ..... | ..... | ..... | ..... | ..... | 162 | 188 | 1.8 | 0.1 | 0 | 1.7 |
| 27..... | 3.8 | ..... | ..... | ..... | ..... | ..... | 134 | 208 | 1.6 | 0.2 | 0 | 1.4 |
| 28..... | 3.8 | ..... | ..... | ..... | ..... | ..... | 85 | 212 | 1.6 | 0.3 | 0 | 1.9 |
| 29..... | 3.8 | ..... | ..... | ..... | ..... | ..... | 50 | 220 | 1.4 | 0.3 | 0 | 1.9 |
| 30..... | 3.8 | ..... | ..... | ..... | ..... | ..... | 43 | 228 | 1.2 | 0.4 | 0.2 | 1.2 |
| 31..... | 4.1 | Nov. 1 to 3 | ..... | ..... | ..... | ..... | 45 | ..... | 1.2 | 1.6 | ..... | ..... |
| Total | 164.2 | 12.6 | ..... | ..... | ..... | ..... | 967 | 3574 | 2248 | 79.3 | 3.3 | 4.8 |
| Mean.. | 5.3 | 4.2 | ..... | ..... | ..... | ..... | 121 | 119 | 72.5 | 2.64 | 0.11 | 0.15 |
| Max... | 40 | 4.4 | ..... | ..... | ..... | ..... | 273 | 228 | 238 | 10 | 1.6 | 1.7 |
| Min... | 2.3 | 3.8 | ..... | ..... | ..... | ..... | 43 | 50 | 12 | 0 | 0 | 0.1 |
| Acree-ft. | 326 | 25 | ..... | ..... | ..... | ..... | 1920 | 7090 | 4460 | 157 | 6.5 | 9.5 |

Total run-off for period=14,085 acre-feet.

Discharge of San Antonio River at Ortiz, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|
| 1..... | 1.2 | 3.0 | ..... | ..... | ..... | ..... | 83 | 52 | 10 | 0 | 0 | 0.2 |
| 2..... | 0.9 | 2.0 | ..... | ..... | ..... | ..... | 88 | 81 | 8.0 | 0 | 0 | 2.0 |
| 3..... | 0.6 | 1.6 | ..... | ..... | ..... | ..... | 64 | 86 | 6.9 | 0 | 0 | 1.4 |
| 4..... | 0.9 | 2.0 | ..... | ..... | ..... | ..... | 50 | 91 | 6.3 | 0 | 0 | 1.7 |
| 5..... | 0.9 | 3.0 | ..... | ..... | ..... | ..... | 55 | 73 | 6.3 | 0 | 0 | 0.9 |
| 6..... | 0.9 | 3.8 | ..... | ..... | ..... | ..... | 45 | 75 | 5.9 | 0 | 0 | 0.6 |
| 7..... | 1.1 | 4.7 | ..... | ..... | ..... | ..... | 56 | 78 | 5.1 | 0 | 0 | 0.5 |
| 8..... | 2.0 | 3.8 | ..... | ..... | ..... | ..... | 47 | 60 | 4.2 | 0 | 1.3 | 0.4 |
| 9..... | 13 | 3.4 | ..... | ..... | ..... | ..... | 59 | 51 | 3.8 | 0 | 5.9 | 0.4 |
| 10..... | 8.6 | 3 | ..... | ..... | ..... | ..... | 77 | 47 | 2.6 | 0 | 1.9 | 0.4 |
| 11..... | 5.5 | 3 | ..... | ..... | ..... | ..... | 81 | 45 | 2.6 | 0 | 1.1 | 3.0 |
| 12..... | 4.2 | 3 | ..... | ..... | ..... | ..... | 77 | 50 | 2.6 | 0 | 0.5 | 6.9 |
| 13..... | 3.8 | 3 | ..... | ..... | ..... | ..... | 95 | 51 | 2.6 | 0 | 0.4 | 5.1 |
| 14..... | 3.4 | 3 | ..... | ..... | ..... | ..... | 134 | 43 | 2.2 | 0 | 0.3 | 2.2 |
| 15..... | 3.8 | 3 | ..... | ..... | ..... | ..... | 159 | 36 | 1.6 | 0 | 0.2 | 1.4 |
| 16..... | 3.8 | 3 | ..... | ..... | ..... | ..... | 139 | 32 | 1.4 | 0 | 0.1 | 1.2 |
| 17..... | 3.8 | 4 | ..... | ..... | ..... | ..... | 98 | 34 | 1.1 | 0 | 0.1 | 0.9 |
| 18..... | 4.2 | 4 | ..... | ..... | ..... | ..... | 78 | 37 | 0.6 | 0 | 0.1 | 1.7 |
| 19..... | 4.2 | 4 | ..... | ..... | ..... | ..... | 85 | 35 | 0.5 | 0 | 0 | 4.2 |
| 20..... | 3.8 | 4 | ..... | ..... | ..... | ..... | 117 | 31 | 0.4 | 0 | 0 | 3.8 |
| 21..... | 3.8 | 4 | ..... | ..... | ..... | ..... | 159 | 33 | 0.3 | 0 | 0 | 2.6 |
| 22..... | 3.4 | 4 | ..... | ..... | ..... | ..... | 159 | 40 | 0.2 | 0 | 0 | 3.0 |
| 23..... | 3.8 | 4 | ..... | ..... | ..... | ..... | 157 | 43 | 0.1 | 0 | 0 | 5.5 |
| 24..... | 3.8 | 4 | ..... | ..... | ..... | ..... | 150 | 45 | 0 | 0 | 1.6 | 3.4 |
| 25..... | 3.0 | 5 | ..... | ..... | ..... | ..... | 139 | 37 | 0 | 0 | 1.2 | 2.6 |
| 26..... | 3.4 | 5 | ..... | ..... | ..... | ..... | 150 | 30 | 0 | 0 | 1.1 | 2.2 |
| 27..... | 4.7 | 5 | ..... | ..... | ..... | ..... | 143 | 25 | 0 | 0 | 0.6 | 2.6 |
| 28..... | 6.9 | 5 | ..... | ..... | ..... | ..... | 98 | 22 | 0 | 0 | 0.4 | 2.6 |
| 29..... | 5.1 | 5 | ..... | ..... | ..... | ..... | 46 | 83 | 1.9 | 0 | 0.2 | 2.0 |
| 30..... | 2.2 | 4 | ..... | ..... | ..... | ..... | 43 | 64 | 1.6 | 0 | 0.2 | 2.0 |
| 31..... | 3.0 | ..... | ..... | ..... | ..... | ..... | 65 | ..... | 1.3 | ..... | 0.1 | ..... |
| Total | 113.7 | 109.3 | ..... | ..... | ..... | ..... | 154 | 2989 | 1411 | 75.3 | 0 | 29.0 |
| Mean.. | 3.67 | 3.64 | ..... | ..... | ..... | ..... | ..... | 99.6 | 45.5 | 2.51 | 0 | 0.94 |
| Max... | 13 | 5 | ..... | ..... | ..... | ..... | ..... | 159 | 91 | 10 | 0 | 13 |
| Min... | 0.6 | 1.6 | ..... | ..... | ..... | ..... | ..... | 45 | 13 | 0 | 0 | 0.2 |
| Acree-ft. | 226 | 217 | ..... | ..... | ..... | ..... | ..... | 5930 | 2800 | 149 | 0 | 58 |

Total run-off for period=9,510 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of San Antonio River at Mouth Near Manassa, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|------|------|-------|-------|-------|--------|------|------|-------|
| 1..... | 1.8 | 5.0 | 2.6 | 3.5 | .... | 2.0 | 96 | 822 | 102 | 0.5 | 0 | 0 |
| 2..... | 2.1 | 5.0 | 2.6 | 3.5 | .... | 2.0 | 120 | 822 | 410 | 0.3 | 0 | 0 |
| 3..... | 3.1 | 7.2 | 3.0 | 3.5 | .... | 2.0 | 150 | 684 | 105 | 0.3 | 0 | 0 |
| 4..... | 4.0 | 7.5 | 3.0 | 3.5 | .... | 2.0 | 202 | 664 | 100 | 0.3 | 0 | 0 |
| 5..... | 4.2 | 7.5 | 3.2 | 3.5 | .... | 2.0 | 184 | 576 | 112 | 0.3 | 0 | 0 |
| 6..... | 4.0 | 7.2 | 3.2 | 3.0 | .... | 2.0 | 186 | 611 | 112 | 0.3 | 0 | 0 |
| 7..... | 5.5 | 5.8 | 3.2 | 3.0 | .... | 2.0 | 149 | 516 | 85 | 0.2 | 0 | 0 |
| 8..... | 1.5 | 5.2 | 3.4 | 3.0 | *1.0 | 2.0 | 125 | 471 | 59 | 0.2 | 0 | 0 |
| 9..... | 2.2 | 6.0 | 3.7 | 3.0 | .... | 2.0 | 136 | 448 | 46 | 0.2 | 0 | 0 |
| 10..... | 1.3 | 6.8 | 4.8 | 3.0 | .... | 2.0 | 166 | 430 | 27 | 0.2 | 0 | 0 |
| 11..... | 1.0 | 5.5 | 4.8 | 3.0 | .... | 2.0 | 154 | 401 | 18 | 0.1 | 0 | 0 |
| 12..... | 9.2 | 5.0 | 5.2 | 3.0 | .... | 2.0 | 134 | 381 | 17 | 0.1 | 0 | 0 |
| 13..... | 9.5 | 4.0 | 4.7 | 3.0 | .... | 2.0 | 156 | 336 | 18 | 0 | 0 | 0 |
| 14..... | 9.5 | 4.0 | 3.7 | 3.0 | .... | 2.0 | 190 | 343 | 18 | 0 | 0 | 0 |
| 15..... | 9.5 | 4.2 | 3.4 | 3.0 | .... | 2.0 | 178 | 345 | 16 | 0.1 | 0 | 0 |
| 16..... | 9.5 | 4.4 | 3.7 | 2.5 | .... | 4.0 | 147 | 331 | 11 | 0.1 | 0 | 0 |
| 17..... | 9.5 | 4.7 | 4.0 | 2.5 | .... | 6.0 | 120 | 295 | 8.5 | 0 | 0 | 0 |
| 18..... | 10 | 4.8 | 4.2 | 2.5 | .... | 8.0 | 112 | 251 | 7.2 | 0 | 0 | 0 |
| 19..... | 8.2 | 4.0 | 3.7 | 2.5 | .... | 14.0 | 120 | 223 | 6.5 | 0 | 0 | 0 |
| 20..... | 7.0 | 4.0 | 3.9 | 2.5 | .... | 15.0 | 152 | 223 | 5.5 | 0 | 0 | 0 |
| 21..... | 6.5 | 4.2 | 3.9 | 2.5 | .... | 16.0 | 216 | 227 | 4.5 | 0 | 0 | 0 |
| 22..... | 8.2 | 4.0 | 3.7 | 2.5 | .... | 21.0 | 336 | 218 | 3.7 | 0 | 0 | 0 |
| 23..... | 6.8 | 3.9 | 4.0 | 2.5 | .... | 27.0 | 456 | 194 | 2.9 | 0 | 0 | 0 |
| 24..... | 5.5 | 3.1 | 4.0 | 2.5 | .... | 24.3 | 362 | 170 | 2.6 | 0 | 0 | 0 |
| 25..... | 4.8 | 2.8 | 4.0 | 2.5 | .... | 20.2 | 280 | 160 | 2.1 | 0 | 0 | 0 |
| 26..... | 4.5 | 2.8 | 3.8 | 2.0 | .... | 18.0 | 307 | 152 | 1.8 | 0 | 0 | 0 |
| 27..... | 4.7 | 2.6 | 3.8 | 2.0 | .... | 19.8 | 387 | 138 | 1.7 | 0 | 0 | 0 |
| 28..... | 4.8 | 2.6 | 3.7 | 2.0 | .... | 15.0 | 500 | 115 | 1.7 | 0 | 0 | 0 |
| 29..... | 5.8 | 2.6 | 3.7 | 2.0 | .... | 11.8 | 636 | 107 | 1.4 | 0 | 0 | 0 |
| 30..... | 5.0 | 2.6 | 3.5 | 2.0 | .... | 10.0 | 688 | 104 | 1.1 | 0 | 0 | 0 |
| 31..... | 5.0 | .... | 3.5 | 2.0 | .... | 9.1 | .... | 94 | .... | 0 | 0 | .... |
| Total | 228.2 | 139.0 | 115.6 | 84.5 | 42 | 251.2 | 7145 | 10852 | 1007.2 | 3.2 | 0 | 0 |
| Mean. | 7.36 | 4.63 | 3.73 | 2.73 | 1.50 | 8.1 | 238 | 350 | 33.6 | 0.10 | 0 | 0 |
| Max.. | 22 | 7.5 | 5.2 | .... | .... | 27.0 | 688 | 822 | 112 | 0.5 | 0 | 0 |
| Min.. | 1.8 | 2.6 | 2.6 | .... | .... | .... | 96 | 94 | 1.1 | 0 | 0 | 0 |
| Acre-ft. | 453 | 276 | 229 | 168 | 83 | 4980 | 14170 | 21520 | 2000 | 6.3 | 0 | 0 |

Total run-off for water year 1938-39=43,885 acre-feet.

*Discharge measurement.

Discharge of San Antonio River at Mouth Near Manassa, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|-------|------|-------|-------|------|------|-------|
| 1..... | 0 | 0 | 0.2 | 0.2 | 0.3 | 8 | 44 | 107 | 145 | 0.5 | 0 | 0 |
| 2..... | 0 | 0 | 0.2 | 0.2 | 0.3 | 8 | 52 | 117 | 134 | 0.4 | 0 | 0 |
| 3..... | 0 | 0 | 0.2 | 0.2 | 0.3 | 6 | 41 | 168 | 118 | 0.4 | 0 | 0 |
| 4..... | 0 | 0 | 0.2 | 0.2 | 0.3 | 5 | 28 | 248 | 91 | 0.4 | 0 | 0 |
| 5..... | 0 | 0 | 0.2 | 0.2 | 0.3 | 4 | 23 | 231 | 68 | 0.4 | 0 | 0 |
| 6..... | 0 | 0 | 0.2 | 0.2 | 0.3 | 4 | 29 | 219 | 48 | 0.3 | 0 | 0 |
| 7..... | 0 | 0 | 0.2 | 0.2 | 0.3 | 4 | 29 | 221 | 42 | 0.3 | 0 | 0 |
| 8..... | 0 | 0 | 0.2 | 0.2 | 0.3 | 4 | 26 | 224 | 33 | 0.3 | 0 | 0 |
| 9..... | 0 | 0 | 0.2 | 0.2 | 0.3 | 4 | 23 | 201 | 22 | 0.2 | 0 | 0 |
| 10..... | 0 | 0 | 0.2 | 0.2 | 0.3 | 4 | 29 | 194 | 14 | 0.2 | 0 | 0 |
| 11..... | 0 | 0 | 0.3 | 0.2 | 0.3 | 4 | 45 | 198 | 14 | 0.2 | 0 | 0 |
| 12..... | 0 | 0 | 0.3 | 0.2 | 0.3 | 4 | 47 | 212 | 13 | 0.2 | 0 | 0 |
| 13..... | 0 | 0 | 0.3 | 0.2 | 0.3 | 4 | 73 | 238 | 8.4 | 0.2 | 0 | 0 |
| 14..... | 0 | 0 | 0.3 | 0.2 | 0.3 | 4 | 149 | 238 | 7.5 | 0.1 | 0 | 0 |
| 15..... | 6 | 0 | 0.2 | 0.2 | 0.3 | 3.7 | 250 | 224 | 5.5 | 0.1 | 0 | 0 |
| 16..... | 0 | 0 | 0.2 | 0.2 | 0.3 | 3.7 | 236 | 217 | 4.7 | 0.1 | 0 | 0 |
| 17..... | 0 | 0 | 0.2 | 0.2 | 0.3 | 3.7 | 182 | 257 | 4.4 | 0.1 | 0 | 0 |
| 18..... | 0 | 0 | 0.2 | 0.2 | 0.3 | 3.9 | 132 | 442 | 3.7 | 0.1 | 0 | 0 |
| 19..... | 0 | 0 | 0.2 | 0.2 | 0.3 | 3.9 | 100 | 324 | 2.8 | 0.1 | 0 | 0 |
| 20..... | 0 | 0 | 0.2 | 0.2 | 0.3 | 4.2 | 118 | 231 | 2.6 | 0.1 | 0 | 0 |
| 21..... | 0 | 0 | 0.2 | 0.2 | 0.3 | 4.2 | 221 | 187 | 2.4 | 0.1 | 0 | 0 |
| 22..... | 0 | 0 | 0.2 | 0.2 | 0.3 | 4.4 | 298 | 192 | 2.4 | 0.1 | 0 | 0 |
| 23..... | 0 | 0.1 | 0.2 | 0.2 | 0.3 | 5.0 | 311 | 243 | 2.0 | 0 | 0 | 0 |
| 24..... | 0 | 0.2 | 0.2 | 0.2 | 0.5 | 3.7 | 340 | 238 | 2.0 | 0 | 0 | 0 |
| 25..... | 0 | 0.2 | 0.2 | 0.2 | 1.0 | 2.2 | 319 | 224 | 1.7 | 0 | 0 | 0 |
| 26..... | 0 | 0.2 | 0.2 | 0.2 | 2.0 | 7.2 | 314 | 224 | 1.4 | 0 | 0 | 0 |
| 27..... | 0 | 0.2 | 0.2 | 0.2 | 2.0 | 10.2 | 353 | 240 | 1.2 | 0 | 0 | 0 |
| 28..... | 0 | 0.2 | 0.2 | 0.2 | 5.0 | 8.9 | 236 | 221 | 1.1 | 0 | 0 | 0 |
| 29..... | 0 | 0.2 | 0.2 | 0.2 | 8.0 | 6.2 | 168 | 203 | 0.9 | 0 | 0 | 0 |
| 30..... | 0 | 0.2 | 0.2 | 0.2 | .... | 3.6 | 132 | 187 | 0.8 | 0 | 0 | 0 |
| 31..... | 0 | .... | 0.2 | 0.2 | .... | 3.2 | .... | 170 | .... | 0 | 0 | .... |
| Total | 0 | 1.5 | 6.6 | 6.2 | 25.4 | 522.4 | 4348 | 6840 | 797.5 | 4.9 | 0 | 0 |
| Mean. | 0 | 0.05 | 0.21 | 0.20 | 0.88 | 16.9 | 145 | 221 | 26.6 | 0.16 | 0 | 0 |
| Max.. | 0 | 0.2 | 0.3 | 0.2 | 8.0 | 10.2 | 353 | 442 | 14.5 | 0.5 | 0 | 0 |
| Min.. | 0 | 0 | 0.2 | 0.2 | 0.3 | 3.7 | 23 | 107 | 0.8 | 0 | 0 | 0 |
| Acre-ft. | 0 | 3.0 | 13 | 12 | 50 | 1040 | 8620 | 13570 | 1580 | 9.7 | 0 | 0 |

Total run-off for water year 1939-40=24,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Los Pinos River Near Ortiz, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|--------|-------|-------|-------|---------|-------|-------|-------|------|------|-------|
| 1.... | 23 | 23 | ..... | ..... | ..... | ..... | 105 | 981 | 260 | 40 | 26 | 14 |
| 2.... | 22 | 24 | ..... | ..... | ..... | ..... | 142 | 905 | 244 | 38 | 21 | 13 |
| 3.... | 22 | ..... | ..... | ..... | ..... | ..... | 187 | 851 | 234 | 32 | 19 | 11 |
| 4.... | 23 | ..... | ..... | ..... | ..... | ..... | 216 | 816 | 253 | 30 | 19 | 9.6 |
| 5.... | 23 | ..... | ..... | ..... | ..... | ..... | 171 | 778 | 253 | 27 | 18 | 9.6 |
| 6.... | 24 | ..... | ..... | ..... | ..... | ..... | 173 | 789 | 228 | 25 | 17 | 12 |
| 7.... | 27 | ..... | ..... | ..... | ..... | ..... | 132 | 667 | 196 | 22 | 20 | 13 |
| 8.... | 80 | ..... | ..... | ..... | ..... | ..... | 145 | 667 | 182 | 21 | 28 | 13 |
| 9.... | 58 | ..... | ..... | ..... | ..... | ..... | 207 | 672 | 166 | 22 | 21 | 11 |
| 10.... | 44 | ..... | ..... | ..... | ..... | ..... | 210 | 688 | 155 | 20 | 18 | 30 |
| 11.... | 44 | ..... | ..... | ..... | ..... | ..... | 163 | 657 | 147 | 18 | 16 | 22 |
| 12.... | 40 | ..... | ..... | ..... | ..... | ..... | 173 | 599 | 142 | 16 | 16 | 21 |
| 13.... | 43 | ..... | ..... | ..... | ..... | ..... | 231 | 558 | 134 | 16 | 15 | 21 |
| 14.... | 41 | ..... | ..... | ..... | ..... | ..... | 266 | 536 | 124 | 16 | 17 | 24 |
| 15.... | 40 | ..... | ..... | ..... | ..... | ..... | 210 | 477 | 112 | 18 | 16 | 38 |
| 16.... | 62 | ..... | ..... | ..... | ..... | ..... | 171 | 452 | 100 | 19 | 13 | 32 |
| 17.... | 53 | ..... | ..... | ..... | ..... | ..... | 155 | 393 | 90 | 19 | 13 | 25 |
| 18.... | 37 | ..... | ..... | ..... | ..... | ..... | 160 | 436 | 83 | 16 | 13 | 24 |
| 19.... | 34 | ..... | ..... | ..... | ..... | ..... | 213 | 465 | 75 | 16 | 15 | 20 |
| 20.... | 31 | ..... | ..... | ..... | ..... | ..... | 293 | 440 | 71 | 16 | 15 | 17 |
| 21.... | 31 | ..... | ..... | ..... | ..... | ..... | 440 | 397 | 64 | 15 | 19 | 16 |
| 22.... | 30 | ..... | ..... | ..... | ..... | ..... | 554 | 385 | 58 | 14 | 19 | 15 |
| 23.... | 28 | ..... | ..... | ..... | ..... | Mar. 25 | 590 | 370 | 53 | 16 | 16 | 14 |
| 24.... | 26 | ..... | ..... | ..... | ..... | to 31 | 432 | 338 | 52 | 15 | 16 | 13 |
| 25.... | 25 | ..... | ..... | ..... | ..... | 122 | 420 | 297 | 46 | 14 | 14 | 13 |
| 26.... | 24 | ..... | ..... | ..... | ..... | 153 | 541 | 253 | 45 | 13 | 16 | 13 |
| 27.... | 24 | ..... | ..... | ..... | ..... | 150 | 657 | 253 | 43 | 16 | 17 | 17 |
| 28.... | 24 | ..... | ..... | ..... | ..... | 110 | 816 | 253 | 43 | 21 | 21 | 18 |
| 29.... | 24 | ..... | ..... | ..... | ..... | 92 | 869 | 253 | 43 | 25 | 20 | 16 |
| 30.... | 23 | Nov. 1 | ..... | ..... | ..... | 81 | 924 | 256 | 43 | 24 | 16 | 16 |
| 31.... | 23 | to 2 | ..... | ..... | ..... | 85 | ..... | 244 | ..... | 38 | 14 | ..... |
| Total | 1053 | 47 | ..... | ..... | ..... | 793 | 9966 | 16126 | 3739 | 658 | 544 | 531.2 |
| Mean. | 34.0 | 23.5 | ..... | ..... | ..... | 113 | 332 | 520 | 125 | 21.2 | 17.5 | 17.7 |
| Max. | 80 | ..... | ..... | ..... | ..... | 153 | 924 | 981 | 260 | 40 | 28 | 38 |
| Min. | 22 | ..... | ..... | ..... | ..... | 81 | 105 | 244 | 43 | 13 | 13 | 9.6 |
| Acre-ft. | 2090 | 93 | ..... | ..... | ..... | 1570 | 19770 | 31990 | 7420 | 1310 | 1080 | 1050 |

Total run-off for period=66,373 acre-feet.

Discharge of Los Pinos River Near Ortiz, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|---------|-------|-------|-------|------|------|-------|
| 1.... | 14 | 15 | ..... | ..... | ..... | ..... | 142 | 228 | 253 | 34 | 15 | 13 |
| 2.... | 13 | 17 | ..... | ..... | ..... | ..... | 137 | 348 | 240 | 32 | 14 | 14 |
| 3.... | 13 | 16 | ..... | ..... | ..... | ..... | 102 | 473 | 222 | 30 | 15 | 20 |
| 4.... | 13 | 15 | ..... | ..... | ..... | ..... | 102 | 486 | 201 | 27 | 14 | 17 |
| 5.... | 13 | 16 | ..... | ..... | ..... | ..... | 107 | 424 | 193 | 42 | 13 | 15 |
| 6.... | 12 | 17 | ..... | ..... | ..... | ..... | 92 | 440 | 179 | 42 | 16 | 14 |
| 7.... | 13 | 16 | ..... | ..... | ..... | ..... | 100 | 456 | 160 | 31 | 19 | 13 |
| 8.... | 16 | 15 | ..... | ..... | ..... | ..... | 96 | 408 | 147 | 27 | 62 | 13 |
| 9.... | 18 | 16 | ..... | ..... | ..... | ..... | 112 | 370 | 134 | 25 | 26 | 13 |
| 10.... | 18 | 16 | ..... | ..... | ..... | ..... | 140 | 416 | 122 | 24 | 19 | 15 |
| 11.... | 16 | 13 | ..... | ..... | ..... | ..... | 150 | 424 | 112 | 24 | 16 | 15 |
| 12.... | 16 | 13 | ..... | ..... | ..... | ..... | 171 | 440 | 102 | 21 | 16 | 16 |
| 13.... | 16 | 14 | ..... | ..... | ..... | ..... | 244 | 444 | 98 | 22 | 13 | 15 |
| 14.... | 16 | 13 | ..... | ..... | ..... | ..... | 378 | 424 | 94 | 21 | 12 | 15 |
| 15.... | 15 | 13 | ..... | ..... | ..... | ..... | 432 | 408 | 90 | 20 | 12 | 14 |
| 16.... | 14 | 13 | ..... | ..... | ..... | ..... | 334 | 412 | 85 | 19 | 12 | 13 |
| 17.... | 15 | 16 | ..... | ..... | ..... | ..... | 234 | 461 | 81 | 19 | 13 | 13 |
| 18.... | 15 | 26 | ..... | ..... | ..... | ..... | 196 | 428 | 73 | 18 | 12 | 18 |
| 19.... | 14 | 19 | ..... | ..... | ..... | ..... | 237 | 331 | 66 | 18 | 11 | 19 |
| 20.... | 14 | 20 | ..... | ..... | ..... | ..... | 366 | 290 | 60 | 19 | 16 | 20 |
| 21.... | 14 | 26 | ..... | ..... | ..... | ..... | 486 | 283 | 58 | 19 | 20 | 17 |
| 22.... | 13 | 21 | ..... | ..... | ..... | ..... | 515 | 317 | 58 | 21 | 17 | 16 |
| 23.... | 14 | 20 | ..... | ..... | ..... | ..... | 558 | 378 | 53 | 19 | 20 | 16 |
| 24.... | 13 | 22 | ..... | ..... | ..... | ..... | 563 | 363 | 53 | 17 | 36 | 14 |
| 25.... | 13 | 24 | ..... | ..... | ..... | ..... | 550 | 324 | 46 | 16 | 34 | 14 |
| 26.... | 15 | 27 | ..... | ..... | ..... | ..... | 563 | 310 | 42 | 16 | 24 | 16 |
| 27.... | 16 | 28 | ..... | ..... | ..... | Mar. 29 | 507 | 320 | 37 | 30 | 20 | 14 |
| 28.... | 15 | 27 | ..... | ..... | ..... | to 31 | 320 | 303 | 38 | 19 | 17 | 13 |
| 29.... | 18 | 27 | ..... | ..... | ..... | 117 | 266 | 293 | 37 | 17 | 16 | 13 |
| 30.... | 16 | 20 | ..... | ..... | ..... | 110 | 225 | 273 | 37 | 17 | 15 | 17 |
| 31.... | 17 | ..... | ..... | ..... | ..... | 124 | ..... | 263 | ..... | 16 | 13 | ..... |
| Total | 458 | 561 | ..... | ..... | ..... | 351 | 8425 | 11538 | 3171 | 722 | 578 | 455 |
| Mean. | 14.8 | 18.7 | ..... | ..... | ..... | 11.7 | 281 | 372 | 106 | 23.3 | 18.6 | 15.2 |
| Max. | 18 | 28 | ..... | ..... | ..... | 124 | 563 | 486 | 253 | 42 | 62 | 20 |
| Min. | 12 | 13 | ..... | ..... | ..... | 110 | 92 | 228 | 37 | 16 | 11 | 13 |
| Acre-ft. | 908 | 1110 | ..... | ..... | ..... | 696 | 16710 | 22890 | 6290 | 1430 | 1150 | 902 |

Total run-off for period=52,090 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Culebra River (Above Mill) at San Luis, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|------|-------|-------|------|-------|
| 1.... | 34 | 29 | 27 | 26 | 27 | 29 | 29 | 30 | 216 | 162 | 91 | 58 |
| 2.... | 32 | 31 | 27 | 26 | 25 | 27 | 31 | 34 | 230 | 130 | 122 | 56 |
| 3.... | 29 | 32 | 27 | 26 | 30 | 28 | 29 | 31 | 220 | 91 | 149 | 38 |
| 4.... | 26 | 33 | 27 | 25 | 30 | 27 | 29 | 28 | 200 | 20 | 181 | 50 |
| 5.... | 27 | 32 | 27 | 26 | 28 | 27 | 28 | 30 | 224 | 91 | 166 | 49 |
| 6.... | 30 | 24 | 27 | 26 | 26 | 27 | 26 | 29 | 229 | 179 | 144 | 42 |
| 7.... | 35 | 33 | 27 | 26 | 26 | 28 | 26 | 20 | 245 | 214 | 127 | 41 |
| 8.... | 33 | 33 | 27 | 26 | 26 | 29 | 26 | 33 | 251 | 206 | 94 | 58 |
| 9.... | 22 | 33 | 27 | 24 | 26 | 29 | 18 | 53 | 238 | 188 | 93 | 56 |
| 10.... | 30 | 33 | 27 | 25 | 25 | 30 | 26 | 52 | 218 | 222 | 107 | 43 |
| 11.... | 35 | 33 | 27 | 24 | 25 | 32 | 24 | 74 | 170 | 250 | 104 | 38 |
| 12.... | 37 | 32 | 27 | 24 | 24 | 35 | 25 | 86 | 219 | 280 | 92 | 32 |
| 13.... | 36 | 32 | 26 | 24 | 27 | 40 | 24 | 66 | 226 | 292 | 66 | 34 |
| 14.... | 36 | 32 | 26 | 24 | 26 | 43 | 28 | 49 | 238 | 280 | 69 | 33 |
| 15.... | 33 | 32 | 26 | 24 | 26 | 39 | 30 | 42 | 257 | 241 | 90 | 38 |
| 16.... | 19 | 32 | 26 | 27 | 27 | 38 | 20 | 74 | 272 | 135 | 95 | 35 |
| 17.... | 30 | 32 | 26 | 30 | 26 | 37 | 23 | 86 | 247 | 136 | 86 | 34 |
| 18.... | 30 | 31 | 26 | 30 | 26 | 34 | 22 | 96 | 215 | 150 | 77 | 32 |
| 19.... | 30 | 31 | 26 | 29 | 26 | 33 | 23 | 109 | 247 | 151 | 70 | 24 |
| 20.... | 30 | 32 | 26 | 30 | 27 | 33 | 23 | 106 | 223 | 166 | 58 | 27 |
| 21.... | 30 | 32 | 26 | 30 | 26 | 41 | 23 | 101 | 240 | 175 | 58 | 23 |
| 22.... | 30 | 31 | 26 | 30 | 27 | 38 | 24 | 148 | 211 | 182 | 68 | 24 |
| 23.... | 18 | 29 | 25 | 31 | 26 | 47 | 18 | 187 | 209 | 153 | 67 | 29 |
| 24.... | 24 | 29 | 24 | 30 | 27 | 39 | 26 | 203 | 190 | 155 | 53 | 24 |
| 25.... | 33 | 29 | 24 | 29 | 27 | 34 | 29 | 231 | 166 | 188 | 58 | 22 |
| 26.... | 33 | 29 | 26 | 29 | 26 | 20 | 29 | 209 | 200 | 196 | 46 | 33 |
| 27.... | 32 | 29 | 27 | 29 | 27 | 35 | 26 | 203 | 216 | 193 | 23 | 31 |
| 28.... | 30 | 27 | 27 | 30 | 28 | 31 | 25 | 190 | 205 | 176 | 40 | 24 |
| 29.... | 30 | 26 | 26 | 29 | .... | 32 | 30 | 204 | 200 | 78 | 50 | 23 |
| 30.... | 30 | 26 | 26 | 30 | .... | 36 | 31 | 204 | 180 | 65 | 50 | 23 |
| 31.... | 29 | .... | 27 | 28 | .... | 30 | .... | 202 | .... | 76 | 59 | .... |
| Total | 933 | 919 | 816 | 847 | 743 | 1028 | 771 | 3210 | 6602 | 5221 | 2653 | 1077 |
| Mean. | 30.1 | 30.6 | 26.3 | 27.3 | 26.5 | 33.2 | 25.7 | 104 | 220 | 168 | 85.6 | 35.9 |
| Max.. | 37 | 33 | 27 | 31 | 30 | 47 | 31 | 231 | 272 | 292 | 181 | 58 |
| Min.. | 18 | 24 | 24 | 24 | 24 | 20 | 18 | 20 | 166 | 20 | 23 | 22 |
| Acre-ft. | 1850 | 1820 | 1620 | 1680 | 1470 | 2040 | 1530 | 6370 | 13090 | 10360 | 5260 | 2140 |

Total run-off for water year 1938-39= 49,230 acre-feet.

Discharge of Culebra River Above Mill at San Luis, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|-------|------|------|------|------|-------|------|--------|--------|
| 1.... | 12 | 24 | 28 | 28 | 26 | 29 | 26 | 22 | 94 | 178 | 149 | 8.8 |
| 2.... | 21 | 23 | 24 | 27 | 26 | 24 | 26 | 22 | 102 | 170 | 143 | 45 |
| 3.... | 26 | 23 | 12 | 27 | 23 | 14 | 24 | 14 | 110 | 108 | 130 | 85 |
| 4.... | 25 | 22 | 26 | 27 | 12 | 29 | 24 | 14 | 148 | 21 | 116 | 42 |
| 5.... | 26 | 14 | 29 | 27 | 27 | 30 | 24 | 14 | 220 | 88 | 155 | 39 |
| 6.... | 24 | 25 | 29 | 25 | 27 | 29 | 24 | 20 | 250 | 131 | 122 | 38 |
| 7.... | 22 | 27 | 29 | 11 | 27 | 29 | 16 | 25 | 272 | 134 | 82 | 33 |
| 8.... | 11 | 24 | 28 | 26 | 27 | 29 | 22 | 30 | 302 | 200 | 69 | 9.6 |
| 9.... | 26 | 27 | 24 | 28 | 27 | 27 | 23 | 37 | 272 | 198 | 68 | 37 |
| 10.... | 23 | 33 | 13 | 28 | 23 | 16 | 22 | 41 | 288 | 220 | 73 | 39 |
| 11.... | 22 | 19 | 24 | 27 | 11 | 29 | 20 | 51 | 276 | 229 | 62 | 35 |
| 12.... | 25 | 14 | 26 | 27 | 26 | 29 | 20 | 40 | 288 | 219 | 51 | 39 |
| 13.... | 21 | 26 | 27 | 23 | 26 | 28 | 20 | 35 | 259 | 200 | 47 | 37 |
| 14.... | 22 | 28 | 28 | 10 | 27 | 29 | 12 | 51 | 234 | 184 | 50 | 76 |
| 15.... | 22 | 28 | 27 | 22 | 27 | 28 | 21 | 56 | 223 | 213 | 50 | 35 |
| 16.... | 24 | 29 | 24 | 25 | 26 | 24 | 26 | 39 | 179 | 203 | 50 | 35 |
| 17.... | 23 | 29 | 12 | 27 | 22 | 13 | 27 | 54 | 230 | 197 | 47 | 36 |
| 18.... | 21 | 26 | 24 | 27 | 10 | 25 | 23 | 48 | 236 | 179 | 82 | 37 |
| 19.... | 23 | 13 | 26 | 27 | 26 | 26 | 22 | 25 | 227 | 169 | 46 | 32 |
| 20.... | 23 | 27 | 23 | 24 | 27 | 28 | 23 | 35 | 243 | 142 | 42 | 29 |
| 21.... | 21 | 29 | 24 | 12 | 27 | 29 | 12 | 37 | 224 | 105 | 46 | 29 |
| 22.... | 12 | 29 | 26 | 28 | 27 | 26 | 23 | 39 | 231 | 112 | 42 | 22 |
| 23.... | 23 | 29 | 22 | 20 | 27 | 23 | 24 | 47 | 218 | 151 | 41 | 26 |
| 24.... | 26 | 29 | 12 | 20 | 23 | 12 | 23 | 50 | 247 | 204 | 34 | 26 |
| 25.... | 22 | 29 | 11 | 24 | 12 | 22 | 23 | 47 | 237 | 178 | 9.2 | 25 |
| 26.... | 23 | 29 | 24 | 23 | 28 | 24 | 23 | 42 | 215 | 164 | 36 | 30 |
| 27.... | 21 | 29 | 26 | 20 | 32 | 22 | 23 | 46 | 234 | 126 | 40 | 28 |
| 28.... | 23 | 29 | 26 | 9.2 | 32 | 23 | 14 | 58 | 233 | 76 | 39 | 23 |
| 29.... | 22 | 29 | 26 | 24 | 31 | 18 | 24 | 83 | 215 | 90 | 40 | 18 |
| 30.... | 22 | 29 | 24 | 24 | .... | 18 | 22 | 85 | 190 | 109 | 40 | 23 |
| 31.... | 23 | .... | 12 | 26 | .... | 12 | .... | 91 | .... | 137 | 33 | .... |
| Total | 680 | 771 | 716 | 723.2 | 712 | 744 | 656 | 1298 | 6697 | 4835 | 2034.2 | 1017.4 |
| Mean. | 21.9 | 25.7 | 23.1 | 23.3 | 24.6 | 24.0 | 21.9 | 41.9 | 223 | 156 | 65.6 | 33.9 |
| Max.. | 26 | 33 | 29 | 28 | 32 | 30 | 27 | 91 | 302 | 229 | 155 | 85 |
| Min.. | 11 | 13 | 11 | 9.2 | 10 | 12 | 12 | 14 | 94 | 21 | 9.2 | 8.8 |
| Acre-ft. | 1350 | 1530 | 1420 | 1430 | 1410 | 1480 | 1300 | 2570 | 13280 | 9590 | 4030 | 2020 |

Total run-off for water year 1939-40=41,410 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Culebra River (Below Mill) at San Luis, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|--------|-------|-------|-------|-------|---------|------|-------|-------|------|-------|
| 1.... | 48 | 41 | ..... | ..... | ..... | ..... | ..... | 53 | 234 | 167 | 89 | 68 |
| 2.... | 48 | 44 | ..... | ..... | ..... | ..... | ..... | 55 | 251 | 136 | 124 | 67 |
| 3.... | 45 | 46 | ..... | ..... | ..... | ..... | ..... | 53 | 242 | 100 | 157 | 48 |
| 4.... | 39 | 46 | ..... | ..... | ..... | ..... | ..... | 49 | 219 | 26 | 194 | 61 |
| 5.... | 41 | 48 | ..... | ..... | ..... | ..... | ..... | 50 | 245 | 78 | 170 | 60 |
| 6.... | 45 | 46 | ..... | ..... | ..... | ..... | ..... | 49 | 245 | 194 | 154 | 54 |
| 7.... | 54 | 46 | ..... | ..... | ..... | ..... | ..... | 41 | 263 | 242 | 133 | 57 |
| 8.... | 76 | 46 | ..... | ..... | ..... | ..... | ..... | 50 | 266 | 240 | 100 | 71 |
| 9.... | 40 | 49 | ..... | ..... | ..... | ..... | Apr. 11 | 70 | 254 | 208 | 96 | 68 |
| 10.... | 45 | 49 | ..... | ..... | ..... | ..... | to 30 | 61 | 231 | 242 | 113 | 57 |
| 11.... | 50 | 50 | ..... | ..... | ..... | ..... | 39 | 82 | 170 | 272 | 113 | 53 |
| 12.... | 51 | 46 | ..... | ..... | ..... | ..... | 32 | 98 | 231 | 296 | 96 | 49 |
| 13.... | 51 | 44 | ..... | ..... | ..... | ..... | 32 | 80 | 234 | 308 | 74 | 49 |
| 14.... | 51 | 41 | ..... | ..... | ..... | ..... | 33 | 65 | 248 | 305 | 76 | 46 |
| 15.... | 50 | 42 | ..... | ..... | ..... | ..... | 39 | 57 | 272 | 290 | 92 | 61 |
| 16.... | 34 | 44 | ..... | ..... | ..... | ..... | 30 | 80 | 290 | 145 | 102 | 55 |
| 17.... | 41 | 45 | ..... | ..... | ..... | ..... | 33 | 91 | 263 | 133 | 92 | 45 |
| 18.... | 44 | 42 | ..... | ..... | ..... | ..... | 36 | 104 | 234 | 140 | 80 | 42 |
| 19.... | 44 | 44 | ..... | ..... | ..... | ..... | 36 | 120 | 266 | 142 | 76 | 36 |
| 20.... | 41 | 45 | ..... | ..... | ..... | ..... | 37 | 120 | 240 | 164 | 65 | 37 |
| 21.... | 40 | 46 | ..... | ..... | ..... | ..... | 38 | 115 | 257 | 186 | 65 | 37 |
| 22.... | 40 | 45 | ..... | ..... | ..... | ..... | 39 | 160 | 231 | 191 | 76 | 36 |
| 23.... | 41 | 44 | ..... | ..... | ..... | ..... | 37 | 205 | 231 | 160 | 76 | 40 |
| 24.... | 40 | ..... | ..... | ..... | ..... | ..... | 44 | 225 | 205 | 160 | 65 | 37 |
| 25.... | 48 | ..... | ..... | ..... | ..... | ..... | 44 | 263 | 167 | 199 | 71 | 31 |
| 26.... | 45 | ..... | ..... | ..... | ..... | ..... | 48 | 242 | 219 | 211 | 60 | 45 |
| 27.... | 46 | ..... | ..... | ..... | ..... | ..... | 44 | 234 | 225 | 219 | 37 | 42 |
| 28.... | 44 | ..... | ..... | ..... | ..... | ..... | 42 | 219 | 211 | 194 | 50 | 36 |
| 29.... | 42 | ..... | ..... | ..... | ..... | ..... | 46 | 245 | 211 | 180 | 58 | 36 |
| 30.... | 42 | Nov. 1 | ..... | ..... | ..... | ..... | 51 | 222 | 186 | 67 | 58 | 36 |
| 31.... | 42 | to 23 | ..... | ..... | ..... | ..... | ..... | 215 | ..... | 72 | 67 | ..... |
| Total | 1410 | 1039 | ..... | ..... | ..... | ..... | 780 | 3774 | 7041 | 5567 | 2879 | 1460 |
| Mean.. | 45.5 | 45.2 | ..... | ..... | ..... | ..... | 39.0 | 122 | 235 | 180 | 92.9 | 48.7 |
| Max.. | 76 | 50 | ..... | ..... | ..... | ..... | 51 | 263 | 290 | 308 | 194 | 71 |
| Min.. | 34 | 41 | ..... | ..... | ..... | ..... | 30 | 41 | 167 | 26 | 37 | 31 |
| Acre-ft. | 2800 | 2060 | ..... | ..... | ..... | ..... | 1550 | 7490 | 13970 | 11040 | 5710 | 2900 |

Total run-off for period=47,520 acre-feet.

Discharge of Culebra River Below Mill at San Luis, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | |
|----------|------|-------|--------|-------|-------|---------|------|-------|------|-------|-------|-------|-------|
| 1.... | 23 | 35 | 40 | ..... | ..... | ..... | 38 | 28 | 94 | 202 | 152 | 18 | |
| 2.... | 32 | 34 | 36 | ..... | ..... | ..... | 39 | 29 | 100 | 194 | 152 | 49 | |
| 3.... | 34 | 34 | 25 | ..... | ..... | ..... | 37 | 22 | 109 | 120 | 133 | 76 | |
| 4.... | 38 | 33 | 38 | ..... | ..... | ..... | 37 | 20 | 152 | 42 | 111 | 42 | |
| 5.... | 36 | 25 | 39 | ..... | ..... | ..... | 37 | 19 | 237 | 129 | 177 | 41 | |
| 6.... | 36 | 36 | 39 | ..... | ..... | ..... | 39 | 23 | 260 | 150 | 142 | 41 | |
| 7.... | 33 | 38 | 40 | ..... | ..... | ..... | 31 | 25 | 293 | 147 | 89 | 36 | |
| 8.... | 25 | 35 | 40 | ..... | ..... | ..... | 36 | 30 | 314 | 228 | 71 | 19 | |
| 9.... | 38 | 39 | 38 | ..... | ..... | ..... | 36 | 36 | 290 | 228 | 65 | 39 | |
| 10.... | 34 | 44 | 26 | ..... | ..... | ..... | 34 | 41 | 296 | 251 | 68 | 45 | |
| 11.... | 33 | 30 | ..... | ..... | ..... | ..... | 32 | 50 | 275 | 257 | 61 | 41 | |
| 12.... | 36 | 25 | ..... | ..... | ..... | ..... | 31 | 42 | 299 | 251 | 49 | 48 | |
| 13.... | 33 | 37 | ..... | ..... | ..... | ..... | 31 | 36 | 263 | 234 | 44 | 48 | |
| 14.... | 32 | 39 | ..... | ..... | ..... | ..... | 25 | 45 | 257 | 199 | 49 | 89 | |
| 15.... | 32 | 39 | ..... | ..... | ..... | ..... | 33 | 51 | 251 | 237 | 48 | 44 | |
| 16.... | 36 | 40 | ..... | ..... | ..... | ..... | 37 | 42 | 196 | 216 | 53 | 45 | |
| 17.... | 34 | 40 | ..... | ..... | ..... | ..... | 39 | 64 | 245 | 205 | 49 | 46 | |
| 18.... | 32 | 37 | ..... | ..... | ..... | Mar. 19 | 36 | 65 | 254 | 186 | 80 | 49 | |
| 19.... | 34 | 24 | ..... | ..... | ..... | to 31 | 33 | 34 | 248 | 175 | 45 | 49 | |
| 20.... | 34 | 39 | | | | | 34 | 38 | 41 | 272 | 140 | 42 | 41 |
| 21.... | 32 | 40 | | | | | 37 | 28 | 44 | 257 | 100 | 45 | 42 |
| 22.... | 23 | 40 | | | | | 36 | 37 | 46 | 266 | 102 | 40 | 36 |
| 23.... | 34 | 40 | | | | | 31 | 36 | 48 | 251 | 145 | 41 | 34 |
| 24.... | 37 | 40 | | | | | 22 | 33 | 50 | 281 | 211 | 39 | 37 |
| 25.... | 33 | 40 | | | | | 32 | 34 | 49 | 275 | 177 | 19 | 38 |
| 26.... | 34 | 40 | | | | | 34 | 37 | 41 | 242 | 162 | 40 | 44 |
| 27.... | 32 | 40 | | | | | 32 | 38 | 42 | 266 | 115 | 41 | 45 |
| 28.... | 34 | 40 | | | | | 33 | 28 | 55 | 269 | 67 | 40 | 39 |
| 29.... | 33 | 40 | | | | | 29 | 36 | 80 | 248 | 77 | 41 | 34 |
| 30.... | 33 | 40 | Dec. 1 | | | | 29 | 29 | 83 | 222 | 98 | 41 | 38 |
| 31.... | 34 | | to 10 | | | | 24 | | 94 | | 136 | 36 | |
| Total | 1024 | 1103 | 361 | | | | 406 | 1036 | 1378 | 7282 | 5181 | 2103 | 1293 |
| Mean.. | 33.0 | 36.8 | 36.1 | | | | 31.2 | 34.5 | 44.5 | 243 | 167 | 67.8 | 43.1 |
| Max.. | 38 | 44 | 40 | | | | 37 | 39 | 94 | 314 | 257 | 177 | 89 |
| Min.. | 23 | 24 | 25 | | | | 22 | 25 | 19 | 94 | 42 | 19 | 18 |
| Acre-ft. | 2030 | 2190 | 716 | | | | 805 | 2050 | 2730 | 14440 | 10280 | 4170 | 2560 |

Total run-off for period=41,970 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of La Garita Creek Near La Garita, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|---------|-------|------|-------|-------|-------|-------|
| 1..... | 7.3 | ..... | ..... | ..... | ..... | ..... | 13 | 43 | 29 | 8.7 | 5.7 | 4.5 |
| 2..... | 7.3 | ..... | ..... | ..... | ..... | ..... | 18 | 47 | 23 | 8.0 | 5.1 | 3.8 |
| 3..... | 7.7 | ..... | ..... | ..... | ..... | ..... | 18 | 49 | 21 | 7.6 | 4.8 | 3.3 |
| 4..... | 7.3 | ..... | ..... | ..... | ..... | ..... | 20 | 42 | 20 | 7.2 | 4.0 | 4.0 |
| 5..... | 8.2 | ..... | ..... | ..... | ..... | ..... | 11 | 38 | 20 | 6.9 | 4.2 | 4.2 |
| 6..... | 8.2 | ..... | ..... | ..... | ..... | ..... | 14 | 44 | 19 | 6.3 | 5.1 | 4.8 |
| 7..... | 22 | ..... | ..... | ..... | ..... | ..... | 9.1 | 36 | 17 | 5.7 | 7.2 | 5.1 |
| 8..... | 32 | ..... | ..... | ..... | ..... | ..... | 12 | 36 | 16 | 6.3 | 5.1 | 5.1 |
| 9..... | 23 | ..... | ..... | ..... | ..... | ..... | 20 | 37 | 16 | 6.3 | 4.2 | 5.4 |
| 10..... | 16 | ..... | ..... | ..... | ..... | ..... | 14 | 42 | 16 | 5.7 | 4.5 | 5.4 |
| 11..... | 15 | ..... | ..... | ..... | ..... | ..... | 10 | 46 | 16 | 5.1 | 4.2 | 5.7 |
| 12..... | 16 | ..... | ..... | ..... | ..... | ..... | 12 | 46 | 16 | 5.1 | 3.8 | 5.4 |
| 13..... | 16 | ..... | ..... | ..... | ..... | ..... | 16 | 39 | 16 | 4.5 | 5.1 | 5.7 |
| 14..... | 16 | ..... | ..... | ..... | ..... | ..... | 16 | 33 | 16 | 4.5 | 5.1 | 5.7 |
| 15..... | 16 | ..... | ..... | ..... | ..... | ..... | 11 | 34 | 16 | 5.1 | 5.4 | 5.4 |
| 16..... | 17 | ..... | ..... | ..... | ..... | ..... | 8.0 | 33 | 17 | 5.1 | 4.8 | 5.1 |
| 17..... | 18 | ..... | ..... | ..... | ..... | ..... | 6.0 | 31 | 16 | 4.5 | 5.1 | 5.1 |
| 18..... | 18 | ..... | ..... | ..... | ..... | ..... | 6.3 | 28 | 15 | 4.0 | 4.5 | 4.8 |
| 19..... | 17 | ..... | ..... | ..... | ..... | ..... | 9.1 | 32 | 14 | 4.2 | 4.2 | 4.5 |
| 20..... | 17 | ..... | ..... | ..... | ..... | ..... | 12 | 32 | 14 | 3.8 | 5.5 | 4.2 |
| 21..... | 16 | ..... | ..... | ..... | ..... | ..... | 17 | 31 | 14 | 3.8 | 6.9 | 4.0 |
| 22..... | 16 | ..... | ..... | ..... | ..... | ..... | 23 | 30 | 12 | 4.2 | 4.8 | 4.5 |
| 23..... | 15 | ..... | ..... | ..... | ..... | ..... | 38 | 28 | 12 | 3.8 | 4.0 | 4.2 |
| 24..... | 16 | ..... | ..... | ..... | ..... | ..... | 25 | 24 | 12 | 3.3 | 6.0 | 4.5 |
| 25..... | 16 | ..... | ..... | ..... | ..... | ..... | 21 | 24 | 11 | 3.5 | 5.1 | 4.5 |
| 26..... | 16 | ..... | ..... | ..... | ..... | ..... | 22 | 25 | 10 | 3.8 | 5.7 | 4.5 |
| 27..... | 16 | ..... | ..... | ..... | ..... | Mar. 29 | 25 | 23 | 9.5 | 4.5 | 6.0 | 4.5 |
| 28..... | 16 | ..... | ..... | ..... | ..... | to 31 | 36 | 24 | 9.5 | 5.1 | 10 | 4.8 |
| 29..... | 15 | ..... | ..... | ..... | ..... | 7.6 | 54 | 24 | 9.5 | 5.4 | 7.2 | 5.4 |
| 30..... | 11 | ..... | ..... | ..... | ..... | 6.6 | 47 | 24 | 9.1 | 6.6 | 6.3 | 4.5 |
| 31..... | 9.0 | ..... | ..... | ..... | ..... | 8.3 | ..... | 25 | ..... | 7.2 | 5.4 | ..... |
| Total | 467.0 | ..... | ..... | ..... | ..... | 22.5 | 563.5 | 1050 | 461.6 | 165.8 | 165.0 | 142.0 |
| Mean. | 15.1 | ..... | ..... | ..... | ..... | 7.50 | 18.8 | 33.9 | 15.4 | 5.35 | 5.32 | 4.73 |
| Max.. | 32 | ..... | ..... | ..... | ..... | 8.3 | 54 | 49 | 29 | 8.7 | 10 | 5.7 |
| Min... | 7.3 | ..... | ..... | ..... | ..... | 6.6 | 6.0 | 23 | 9.1 | 3.3 | 3.8 | 3.3 |
| Acre-ft. | 928 | ..... | ..... | ..... | ..... | 45 | 1120 | 2080 | 916 | 329 | 327 | 282 |

Total run-off for period=6,027 acre-feet.

Discharge of La Garita Creek Near La Garita, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|---------|-------|-------|-------|------|------|-------|
| 1..... | 4.5 | ..... | ..... | ..... | ..... | ..... | 6.7 | 5.0 | 7.5 | 3.0 | 2.1 | 1.6 |
| 2..... | 4.0 | ..... | ..... | ..... | ..... | ..... | 4.7 | 5.2 | 6.7 | 2.6 | 2.5 | 2.1 |
| 3..... | 4.0 | ..... | ..... | ..... | ..... | ..... | 4.5 | 7.9 | 6.7 | 3.0 | 2.5 | 2.1 |
| 4..... | 3.8 | ..... | ..... | ..... | ..... | ..... | 6.0 | 11 | 6.7 | 2.5 | 2.1 | 2.3 |
| 5..... | 3.5 | ..... | ..... | ..... | ..... | ..... | 9.0 | 13 | 7.1 | 2.5 | 1.6 | 1.8 |
| 6..... | 3.5 | ..... | ..... | ..... | ..... | ..... | 8.6 | 10 | 7.1 | 2.3 | 2.3 | 1.6 |
| 7..... | 3.5 | ..... | ..... | ..... | ..... | ..... | 8.2 | 8.6 | 6.7 | 2.1 | 3.5 | 1.8 |
| 8..... | 4.0 | ..... | ..... | ..... | ..... | ..... | 7.1 | 8.2 | 6.0 | 2.3 | 2.3 | 1.6 |
| 9..... | 5.0 | ..... | ..... | ..... | ..... | ..... | 6.0 | 8.2 | 6.0 | 2.6 | 1.6 | 1.6 |
| 10..... | 4.2 | ..... | ..... | ..... | ..... | ..... | 4.5 | 7.9 | 5.6 | 2.8 | 1.6 | 2.6 |
| 11..... | 4.2 | ..... | ..... | ..... | ..... | ..... | 5.0 | 7.5 | 5.6 | 2.6 | 1.6 | 2.0 |
| 12..... | 4.0 | ..... | ..... | ..... | ..... | ..... | 4.7 | 7.5 | 5.6 | 2.6 | 1.6 | 2.3 |
| 13..... | 4.2 | ..... | ..... | ..... | ..... | ..... | 6.3 | 7.5 | 5.2 | 2.6 | 1.3 | 2.6 |
| 14..... | 4.2 | ..... | ..... | ..... | ..... | ..... | 8.2 | 7.1 | 5.2 | 2.8 | 1.1 | 3.0 |
| 15..... | 4.5 | ..... | ..... | ..... | ..... | ..... | 9.0 | 6.0 | 4.7 | 2.1 | 1.4 | 2.8 |
| 16..... | 4.2 | ..... | ..... | ..... | ..... | ..... | 7.9 | 6.3 | 4.5 | 2.0 | 1.1 | 2.5 |
| 17..... | 4.0 | ..... | ..... | ..... | ..... | ..... | 5.2 | 7.1 | 5.2 | 2.3 | 1.4 | 2.6 |
| 18..... | 4.0 | ..... | ..... | ..... | ..... | ..... | 4.7 | 10 | 4.0 | 2.3 | 2.0 | 3.8 |
| 19..... | 4.0 | ..... | ..... | ..... | ..... | ..... | 7.9 | 9.0 | 3.5 | 2.5 | 2.1 | 3.5 |
| 20..... | 3.8 | ..... | ..... | ..... | ..... | ..... | 9.6 | 9.0 | 3.8 | 2.1 | 2.5 | 2.8 |
| 21..... | 3.5 | ..... | ..... | ..... | ..... | ..... | 11 | 9.6 | 3.3 | 3.8 | 2.5 | 2.6 |
| 22..... | 3.8 | ..... | ..... | ..... | ..... | ..... | 9.0 | 12 | 4.2 | 2.1 | 2.1 | 2.6 |
| 23..... | 3.5 | ..... | ..... | ..... | ..... | ..... | 8.2 | 14 | 3.8 | 2.5 | 3.3 | 3.3 |
| 24..... | 3.5 | ..... | ..... | ..... | ..... | ..... | 7.9 | 13 | 3.0 | 2.0 | 4.7 | 3.0 |
| 25..... | 3.3 | ..... | ..... | ..... | ..... | Mar. 27 | 7.1 | 9.0 | 3.8 | 1.8 | 3.8 | 3.5 |
| 26..... | 3.8 | ..... | ..... | ..... | ..... | to 31 | 7.9 | 8.6 | 3.5 | 2.1 | 3.0 | 3.8 |
| 27..... | 2.8 | ..... | ..... | ..... | ..... | 6.7 | 10 | 11 | 3.3 | 2.6 | 2.4 | 3.3 |
| 28..... | 2.3 | ..... | ..... | ..... | ..... | 5.0 | 6.7 | 9.6 | 2.6 | 3.0 | 1.8 | 2.8 |
| 29..... | 3.3 | ..... | ..... | ..... | ..... | 4.7 | 5.6 | 8.6 | 3.5 | 4.0 | 0.7 | 2.8 |
| 30..... | 2.8 | ..... | ..... | ..... | ..... | 4.7 | 5.6 | 8.2 | 2.8 | 3.5 | 0.8 | 2.8 |
| 31..... | 4.2 | ..... | ..... | ..... | ..... | 6.0 | ..... | 7.9 | ..... | 3.0 | 0.9 | ..... |
| Total | 117.9 | ..... | ..... | ..... | ..... | 27.1 | 212.8 | 273.5 | 147.2 | 80.0 | 64.2 | 78.1 |
| Mean. | 3.80 | ..... | ..... | ..... | ..... | 5.42 | 7.09 | 8.82 | 4.91 | 2.58 | 2.07 | 2.60 |
| Max.. | 5.0 | ..... | ..... | ..... | ..... | 6.7 | 11 | 14 | 7.5 | 4.0 | 4.7 | 3.8 |
| Min... | 2.3 | ..... | ..... | ..... | ..... | 4.7 | 4.5 | 5.0 | 2.6 | 1.8 | 0.7 | 1.6 |
| Acre-ft. | 234 | ..... | ..... | ..... | ..... | 54 | 422 | 542 | 292 | 159 | 127 | 155 |

Total run-off for period=1,985 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Carnero Creek Near La Garita, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|---------|-------|------|-------|-------|-------|-------|
| 1.... | 8.9 | ..... | ..... | ..... | ..... | ..... | 32 | 59 | 28 | 8.0 | 5.1 | 6.3 |
| 2.... | 8.9 | ..... | ..... | ..... | ..... | ..... | 50 | 64 | 24 | 7.4 | 4.7 | 5.7 |
| 3.... | 9.7 | ..... | ..... | ..... | ..... | ..... | 56 | 64 | 20 | 6.8 | 5.1 | 4.2 |
| 4.... | 9.3 | ..... | ..... | ..... | ..... | ..... | 66 | 62 | 20 | 6.6 | 4.4 | 3.6 |
| 5.... | 10 | ..... | ..... | ..... | ..... | ..... | 46 | 59 | 20 | 6.6 | 4.0 | 3.1 |
| 6.... | 10 | ..... | ..... | ..... | ..... | ..... | 42 | 62 | 19 | 5.7 | 4.4 | 3.3 |
| 7.... | 27 | ..... | ..... | ..... | ..... | ..... | 28 | 56 | 18 | 5.1 | 7.4 | 3.8 |
| 8.... | 38 | ..... | ..... | ..... | ..... | ..... | 28 | 52 | 17 | 5.1 | 5.1 | 4.0 |
| 9.... | 28 | ..... | ..... | ..... | ..... | ..... | 52 | 52 | 17 | 4.7 | 4.0 | 4.2 |
| 10.... | 19 | ..... | ..... | ..... | ..... | ..... | 47 | 52 | 16 | 3.8 | 3.1 | 4.4 |
| 11.... | 18 | ..... | ..... | ..... | ..... | ..... | 34 | 52 | 16 | 3.3 | 2.6 | 4.2 |
| 12.... | 18 | ..... | ..... | ..... | ..... | ..... | 34 | 52 | 16 | 2.9 | 2.4 | 4.7 |
| 13.... | 19 | ..... | ..... | ..... | ..... | ..... | 47 | 48 | 15 | 2.7 | 2.1 | 4.4 |
| 14.... | 19 | ..... | ..... | ..... | ..... | ..... | 50 | 48 | 14 | 2.6 | 2.1 | 4.2 |
| 15.... | 20 | ..... | ..... | ..... | ..... | ..... | 31 | 47 | 13 | 2.9 | 1.9 | 4.2 |
| 16.... | 21 | ..... | ..... | ..... | ..... | ..... | 25 | 47 | 13 | 3.1 | 1.8 | 5.4 |
| 17.... | 22 | ..... | ..... | ..... | ..... | ..... | 25 | 44 | 12 | 3.1 | 1.6 | 4.4 |
| 18.... | 22 | ..... | ..... | ..... | ..... | ..... | 32 | 41 | 12 | 3.1 | 1.6 | 3.8 |
| 19.... | 21 | ..... | ..... | ..... | ..... | ..... | 28 | 41 | 12 | 2.9 | 1.5 | 3.1 |
| 20.... | 21 | ..... | ..... | ..... | ..... | ..... | 36 | 38 | 12 | 2.7 | 1.5 | 3.1 |
| 21.... | 20 | ..... | ..... | ..... | ..... | ..... | 53 | 36 | 11 | 2.6 | 2.7 | 3.1 |
| 22.... | 20 | ..... | ..... | ..... | ..... | ..... | 59 | 34 | 11 | 2.7 | 2.9 | 3.1 |
| 23.... | 18 | ..... | ..... | ..... | ..... | ..... | 61 | 32 | 10 | 2.7 | 2.4 | 3.1 |
| 24.... | 19 | ..... | ..... | ..... | ..... | ..... | 44 | 31 | 11 | 2.3 | 2.9 | 3.1 |
| 25.... | 20 | ..... | ..... | ..... | ..... | ..... | 42 | 31 | 9.1 | 1.9 | 3.8 | 3.1 |
| 26.... | 20 | ..... | ..... | ..... | ..... | ..... | 47 | 31 | 8.4 | 1.9 | 5.7 | 3.1 |
| 27.... | 19 | ..... | ..... | ..... | ..... | ..... | 46 | 28 | 8.4 | 3.8 | 4.9 | 3.3 |
| 28.... | 19 | ..... | ..... | ..... | ..... | Mar. 30 | 50 | 26 | 9.5 | 4.2 | 6.3 | 3.6 |
| 29.... | 18 | ..... | ..... | ..... | ..... | to 31 | 61 | 25 | 8.4 | 4.9 | 8.4 | 3.8 |
| 30.... | 13 | ..... | ..... | ..... | ..... | 17 | 54 | 24 | 8.4 | 5.4 | 11 | 3.8 |
| 31.... | 11 | ..... | ..... | ..... | ..... | 18 | ..... | 24 | ..... | 5.4 | 8.0 | ..... |
| Total | 566.8 | ..... | ..... | ..... | ..... | 35 | 1306 | 1362 | 429.2 | 126.9 | 125.4 | 117.2 |
| Mean. | 18.3 | ..... | ..... | ..... | ..... | 17.5 | 43.5 | 43.9 | 14.3 | 4.09 | 4.05 | 3.91 |
| Max.. | 38 | ..... | ..... | ..... | ..... | ..... | 66 | 64 | 28 | 8.0 | 11 | 6.3 |
| Min.. | 8.9 | ..... | ..... | ..... | ..... | ..... | 25 | 24 | 8.4 | 1.9 | 1.5 | 3.1 |
| Acre-ft. | 1120 | ..... | ..... | ..... | ..... | 69 | 2590 | 2700 | 851 | 252 | 249 | 232 |

Total run-off for period=8,063 acre-feet.

Discharge of Carnero Creek Near La Garita, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|--------|-------|-------|-------|---------|-------|-------|-------|------|------|-------|
| 1.... | 3.1 | 3.8 | ..... | ..... | ..... | ..... | 13 | 6.6 | 6.3 | 1.9 | 1.0 | 1.2 |
| 2.... | 2.9 | 3.8 | ..... | ..... | ..... | ..... | 10 | 7.1 | 6.0 | 1.8 | 0.8 | 1.2 |
| 3.... | 2.9 | 3.3 | ..... | ..... | ..... | ..... | 9.5 | 8.8 | 5.4 | 1.5 | 0.8 | 1.1 |
| 4.... | 2.9 | 3.3 | ..... | ..... | ..... | ..... | 8.8 | 9.1 | 4.9 | 1.8 | 0.8 | 1.0 |
| 5.... | 2.9 | 3.8 | ..... | ..... | ..... | ..... | 8.4 | 8.4 | 4.7 | 1.5 | 0.8 | 1.0 |
| 6.... | 3.1 | 4.0 | ..... | ..... | ..... | ..... | 8.0 | 8.0 | 4.7 | 0.8 | 0.9 | 1.0 |
| 7.... | 3.1 | 3.1 | ..... | ..... | ..... | ..... | 7.7 | 7.7 | 4.7 | 0.7 | 2.3 | 0.9 |
| 8.... | 4.2 | ..... | ..... | ..... | ..... | ..... | 7.1 | 7.7 | 4.4 | 0.6 | 1.5 | 1.0 |
| 9.... | 5.4 | ..... | ..... | ..... | ..... | ..... | 6.8 | 8.8 | 4.0 | 0.5 | 1.0 | 1.1 |
| 10.... | 4.4 | ..... | ..... | ..... | ..... | ..... | 6.0 | 8.8 | 4.0 | 0.7 | 0.8 | 1.1 |
| 11.... | 4.0 | ..... | ..... | ..... | ..... | ..... | 6.8 | 8.4 | 3.3 | 0.8 | 0.8 | 1.3 |
| 12.... | 4.0 | ..... | ..... | ..... | ..... | ..... | 6.8 | 9.5 | 3.1 | 0.8 | 0.8 | 1.8 |
| 13.... | 4.0 | ..... | ..... | ..... | ..... | ..... | 7.4 | 9.5 | 3.1 | 1.1 | 0.7 | 2.3 |
| 14.... | 4.0 | ..... | ..... | ..... | ..... | ..... | 9.1 | 9.1 | 3.1 | 1.3 | 0.7 | 2.9 |
| 15.... | 4.0 | ..... | ..... | ..... | ..... | ..... | 9.5 | 8.4 | 2.7 | 1.3 | 0.7 | 2.4 |
| 16.... | 4.0 | ..... | ..... | ..... | ..... | ..... | 9.1 | 8.4 | 2.7 | 1.0 | 0.6 | 2.1 |
| 17.... | 3.8 | ..... | ..... | ..... | ..... | ..... | 7.7 | 9.5 | 2.9 | 0.7 | 0.6 | 2.1 |
| 18.... | 3.8 | ..... | ..... | ..... | ..... | ..... | 8.4 | 16 | 2.7 | 0.7 | 0.6 | 2.7 |
| 19.... | 3.6 | ..... | ..... | ..... | ..... | ..... | 10 | 12 | 2.3 | 0.8 | 0.8 | 3.3 |
| 20.... | 3.3 | ..... | ..... | ..... | ..... | ..... | 9.9 | 10 | 2.1 | 0.9 | 1.5 | 2.6 |
| 21.... | 3.1 | ..... | ..... | ..... | ..... | ..... | 10 | 10 | 1.9 | 0.9 | 2.1 | 2.6 |
| 22.... | 3.1 | ..... | ..... | ..... | ..... | ..... | 8.4 | 13 | 1.9 | 1.2 | 2.4 | 2.9 |
| 23.... | 3.1 | ..... | ..... | ..... | ..... | ..... | 8.0 | 15 | 1.9 | 1.3 | 2.7 | 4.2 |
| 24.... | 3.6 | ..... | ..... | ..... | ..... | ..... | 8.4 | 12 | 1.6 | 1.2 | 4.0 | 3.8 |
| 25.... | 3.3 | ..... | ..... | ..... | ..... | Mar. 27 | 9.5 | 9.5 | 1.6 | 0.9 | 3.3 | 3.3 |
| 26.... | 4.0 | ..... | ..... | ..... | ..... | to 31 | 10 | 8.8 | 1.6 | 0.9 | 2.6 | 3.1 |
| 27.... | 3.8 | ..... | ..... | ..... | ..... | 14 | 9.9 | 9.1 | 1.8 | 1.0 | 2.3 | 2.7 |
| 28.... | 3.8 | ..... | ..... | ..... | ..... | 15 | 7.7 | 8.8 | 1.5 | 2.3 | 1.8 | 2.6 |
| 29.... | 4.2 | ..... | ..... | ..... | ..... | 16 | 6.8 | 8.4 | 1.3 | 2.3 | 1.3 | 2.4 |
| 30.... | 4.0 | Nov. 1 | ..... | ..... | ..... | 13 | 6.8 | 7.7 | 1.3 | 1.5 | 1.2 | 2.4 |
| 31.... | 3.8 | to 7 | ..... | ..... | ..... | 14 | ..... | 7.1 | ..... | 1.2 | 1.2 | ..... |
| Total | 113.2 | 25.1 | ..... | ..... | ..... | 72 | 255.5 | 291.2 | 93.4 | 35.9 | 43.4 | 64.1 |
| Mean. | 3.65 | 3.59 | ..... | ..... | ..... | 14.4 | 8.52 | 9.39 | 3.11 | 1.16 | 1.40 | 2.14 |
| Max.. | 5.4 | 4.0 | ..... | ..... | ..... | 16 | 13 | 16 | 6.3 | 2.3 | 4.0 | 4.2 |
| Min.. | 2.9 | 3.1 | ..... | ..... | ..... | 13 | 6.0 | 6.6 | 1.3 | 0.5 | 0.6 | 0.9 |
| Acre-ft. | 225 | 50 | ..... | ..... | ..... | 143 | 507 | 578 | 185 | 71 | 86 | 127 |

Total run-off for period=1,940 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Saguache Creek Near Saguache, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|--------|------|------|------|---------|------|-------|------|------|------|-------|
| 1.... | 46 | 55 | .... | .... | .... | .... | 92 | 215 | 190 | 65 | 55 | 40 |
| 2.... | 46 | 59 | .... | .... | .... | .... | 153 | 234 | 167 | 60 | 49 | 40 |
| 3.... | 51 | 54 | .... | .... | .... | .... | 180 | 234 | 145 | 59 | 50 | 36 |
| 4.... | 51 | 51 | .... | .... | .... | .... | 213 | 221 | 148 | 53 | 46 | 34 |
| 5.... | 49 | 63 | .... | .... | .... | .... | 157 | 221 | 160 | 50 | 42 | 32 |
| 6.... | 53 | 45 | .... | .... | .... | .... | 155 | 232 | 150 | 47 | 45 | 32 |
| 7.... | 116 | 35 | .... | .... | .... | .... | 98 | 215 | 134 | 44 | 62 | 30 |
| 8.... | 145 | 50 | .... | .... | .... | .... | 83 | 202 | 129 | 41 | 54 | 30 |
| 9.... | 96 | 68 | .... | .... | .... | .... | 116 | 202 | 132 | 40 | 44 | 30 |
| 10.... | 71 | 59 | .... | .... | .... | .... | 132 | 218 | 125 | 40 | 40 | 34 |
| 11.... | 66 | 56 | .... | .... | .... | .... | 83 | 221 | 125 | 39 | 38 | 36 |
| 12.... | 59 | 49 | .... | .... | .... | .... | 85 | 221 | 125 | 38 | 37 | 38 |
| 13.... | 59 | 38 | .... | .... | .... | .... | 113 | 205 | 116 | 36 | 38 | 38 |
| 14.... | 60 | .... | .... | .... | .... | .... | 136 | 195 | 111 | 36 | 39 | 36 |
| 15.... | 65 | .... | .... | .... | .... | .... | 102 | 190 | 102 | 38 | 38 | 39 |
| 16.... | 69 | .... | .... | .... | .... | .... | 79 | 200 | 100 | 40 | 38 | 39 |
| 17.... | 69 | .... | .... | .... | .... | .... | 59 | 190 | 90 | 29 | 38 | 38 |
| 18.... | 60 | .... | .... | .... | .... | .... | 60 | 182 | 94 | 38 | 35 | 39 |
| 19.... | 59 | .... | .... | .... | .... | .... | 65 | 190 | 90 | 36 | 34 | 36 |
| 20.... | 56 | .... | .... | .... | .... | .... | 76 | 200 | 85 | 35 | 36 | 35 |
| 21.... | 56 | .... | .... | .... | .... | .... | 102 | 205 | 81 | 34 | 39 | 34 |
| 22.... | 56 | .... | .... | .... | .... | .... | 143 | 208 | 76 | 34 | 39 | 34 |
| 23.... | 54 | .... | .... | .... | .... | .... | 174 | 202 | 79 | 34 | 38 | 32 |
| 24.... | 51 | .... | .... | .... | .... | .... | 134 | 187 | 87 | 31 | 37 | 32 |
| 25.... | 53 | .... | .... | .... | .... | .... | 113 | 174 | 76 | 31 | 39 | 32 |
| 26.... | 53 | .... | .... | .... | .... | .... | 127 | 170 | 71 | 34 | 44 | 31 |
| 27.... | 54 | .... | .... | .... | .... | Mar. 29 | 143 | 157 | 68 | 37 | 45 | 31 |
| 28.... | 54 | .... | .... | .... | .... | to 31 | 172 | 160 | 68 | 49 | 49 | 30 |
| 29.... | 54 | .... | .... | .... | .... | 77 | 213 | 165 | 63 | 59 | 51 | 29 |
| 30.... | 56 | Nov. 1 | .... | .... | .... | 62 | 213 | 162 | 66 | 62 | 47 | 31 |
| 31.... | 56 | to 13 | .... | .... | .... | 66 | .... | 170 | .... | 62 | 43 | .... |
| Total | 1943 | 682 | .... | .... | .... | 205 | 3771 | 6148 | 3253 | 1341 | 1329 | 1028 |
| Mean. | 62.7 | 52.5 | .... | .... | .... | 68.3 | 126 | 198 | 108 | 43.3 | 42.9 | 34.3 |
| Max.. | 145 | 68 | .... | .... | .... | 77 | 213 | 234 | 190 | 65 | 62 | 40 |
| Min.. | 46 | 35 | .... | .... | .... | 62 | 59 | 157 | 63 | 31 | 34 | 29 |
| Acre-ft. | 3850 | 1350 | .... | .... | .... | 407 | 7480 | 12190 | 6450 | 2660 | 2640 | 2040 |

Total run-off for period=39,067 acre-feet.

Discharge of Saguache Creek Near Saguache, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|--------|------|------|------|---------|------|------|------|------|------|-------|
| 1.... | 29 | 29 | .... | .... | .... | .... | 26 | 31 | 47 | 26 | 23 | 21 |
| 2.... | 28 | 29 | .... | .... | .... | .... | 29 | 31 | 45 | 25 | 20 | 21 |
| 3.... | 28 | 28 | .... | .... | .... | .... | 25 | 36 | 44 | 18 | 18 | 21 |
| 4.... | 27 | 27 | .... | .... | .... | .... | 25 | 47 | 40 | 17 | 18 | 21 |
| 5.... | 28 | 26 | .... | .... | .... | .... | 26 | 55 | 39 | 17 | 19 | 18 |
| 6.... | 28 | 31 | .... | .... | .... | .... | 28 | 56 | 37 | 18 | 22 | 15 |
| 7.... | 28 | 30 | .... | .... | .... | .... | 32 | 55 | 37 | 17 | 29 | 17 |
| 8.... | 29 | 26 | .... | .... | .... | .... | 32 | 54 | 33 | 16 | 26 | 17 |
| 9.... | 31 | 31 | .... | .... | .... | .... | 32 | 54 | 34 | 15 | 22 | 16 |
| 10.... | 30 | 27 | .... | .... | .... | .... | 31 | 54 | 34 | 15 | 18 | 15 |
| 11.... | 28 | 24 | .... | .... | .... | .... | 26 | 59 | 33 | 15 | 18 | 15 |
| 12.... | 30 | 25 | .... | .... | .... | .... | 26 | 56 | 33 | 15 | 19 | 14 |
| 13.... | 30 | 26 | .... | .... | .... | .... | 29 | 54 | 33 | 15 | 17 | 15 |
| 14.... | 30 | 25 | .... | .... | .... | Mar. 16 | 34 | 55 | 32 | 15 | 17 | 18 |
| 15.... | 30 | 23 | .... | .... | .... | to 31 | 42 | 56 | 32 | 14 | 17 | 18 |
| 16.... | 29 | 26 | .... | .... | .... | 33 | 40 | 57 | 32 | 16 | 17 | 18 |
| 17.... | 29 | .... | .... | .... | .... | 33 | 38 | 66 | 30 | 17 | 19 | 16 |
| 18.... | 30 | .... | .... | .... | .... | 30 | 32 | 80 | 28 | 17 | 25 | 17 |
| 19.... | 31 | .... | .... | .... | .... | 26 | 34 | 66 | 27 | 21 | 25 | 22 |
| 20.... | 31 | .... | .... | .... | .... | 25 | 38 | 56 | 26 | 18 | 24 | 23 |
| 21.... | 30 | .... | .... | .... | .... | 26 | 45 | 55 | 27 | 21 | 25 | 21 |
| 22.... | 31 | .... | .... | .... | .... | 25 | 45 | 57 | 31 | 24 | 31 | 24 |
| 23.... | 31 | .... | .... | .... | .... | 25 | 38 | 57 | 31 | 22 | 33 | 30 |
| 24.... | 30 | .... | .... | .... | .... | 25 | 40 | 55 | 29 | 22 | 28 | 28 |
| 25.... | 30 | .... | .... | .... | .... | 29 | 43 | 62 | 27 | 21 | 34 | 25 |
| 26.... | 31 | .... | .... | .... | .... | 31 | 43 | 56 | 24 | 21 | 35 | 24 |
| 27.... | 33 | .... | .... | .... | .... | 33 | 43 | 60 | 25 | 31 | 31 | 24 |
| 28.... | 25 | .... | .... | .... | .... | 30 | 39 | 51 | 24 | 35 | 26 | 24 |
| 29.... | 31 | .... | .... | .... | .... | 25 | 36 | 48 | 21 | 32 | 23 | 30 |
| 30.... | 28 | Nov. 1 | .... | .... | .... | 23 | 34 | 48 | 22 | 31 | 21 | 36 |
| 31.... | 30 | to 16 | .... | .... | .... | 24 | .... | 46 | .... | 27 | 21 | .... |
| Total | 914 | 433 | .... | .... | .... | 443 | 1031 | 1673 | 957 | 634 | 721 | 624 |
| Mean. | 29.5 | 27.1 | .... | .... | .... | 27.7 | 34.4 | 54.0 | 31.9 | 20.5 | 23.3 | 20.8 |
| Max.. | 33 | .... | .... | .... | .... | .... | 45 | 80 | 47 | 35 | 35 | 36 |
| Min.. | 25 | .... | .... | .... | .... | .... | 25 | 31 | 21 | 14 | 17 | 14 |
| Acre-ft. | 1810 | 859 | .... | .... | .... | 879 | 2040 | 3320 | 1900 | 1260 | 1430 | 1240 |

Total run-off for period=14,740 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Kerber Creek at Ashley Ranch Near Villa Grove, Colo., for Year Ending
Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|---------|-------|------|-------|-------|-------|-------|
| 1.... | 7.6 | ..... | ..... | ..... | ..... | ..... | 12 | 49 | 48 | 12 | 6.6 | 3.7 |
| 2.... | 7.6 | ..... | ..... | ..... | ..... | ..... | 15 | 40 | 43 | 10 | 6.2 | 3.7 |
| 3.... | 8.3 | ..... | ..... | ..... | ..... | ..... | 18 | 39 | 44 | 9.4 | 6.2 | 2.7 |
| 4.... | 9.0 | ..... | ..... | ..... | ..... | ..... | 18 | 31 | 61 | 9.8 | 5.4 | 2.7 |
| 5.... | 8.6 | ..... | ..... | ..... | ..... | ..... | 17 | 33 | 53 | 9.8 | 5.1 | 2.6 |
| 6.... | 13 | ..... | ..... | ..... | ..... | ..... | 15 | 40 | 54 | 8.9 | 5.7 | 2.9 |
| 7.... | 30 | ..... | ..... | ..... | ..... | ..... | 14 | 39 | 45 | 8.0 | 6.6 | 2.7 |
| 8.... | 23 | ..... | ..... | ..... | ..... | ..... | 16 | 41 | 41 | 8.5 | 5.7 | 3.5 |
| 9.... | 17 | ..... | ..... | ..... | ..... | ..... | 19 | 45 | 31 | 8.0 | 4.0 | 4.9 |
| 10.... | 16 | ..... | ..... | ..... | ..... | ..... | 15 | 55 | 24 | 8.9 | 4.0 | 4.0 |
| 11.... | 15 | ..... | ..... | ..... | ..... | ..... | 14 | 73 | 22 | 7.1 | 3.7 | 4.9 |
| 12.... | 15 | ..... | ..... | ..... | ..... | ..... | 18 | 64 | 20 | 8.0 | 4.0 | 4.6 |
| 13.... | 17 | ..... | ..... | ..... | ..... | ..... | 20 | 64 | 19 | 6.6 | 4.0 | 4.6 |
| 14.... | 17 | ..... | ..... | ..... | ..... | ..... | 20 | 67 | 16 | 6.6 | 3.7 | 4.3 |
| 15.... | 18 | ..... | ..... | ..... | ..... | ..... | 17 | 72 | 15 | 7.1 | 3.7 | 4.6 |
| 16.... | 21 | ..... | ..... | ..... | ..... | ..... | 16 | 64 | 14 | 6.6 | 3.7 | 4.0 |
| 17.... | 21 | ..... | ..... | ..... | ..... | ..... | 16 | 64 | 14 | 6.2 | 3.5 | 3.7 |
| 18.... | 21 | ..... | ..... | ..... | ..... | ..... | 23 | 64 | 13 | 6.2 | 3.2 | 3.5 |
| 19.... | 21 | ..... | ..... | ..... | ..... | ..... | 20 | 67 | 13 | 6.2 | 3.2 | 3.7 |
| 20.... | 20 | ..... | ..... | ..... | ..... | ..... | 24 | 70 | 12 | 5.1 | 3.5 | 3.7 |
| 21.... | 18 | ..... | ..... | ..... | ..... | ..... | 30 | 66 | 12 | 4.6 | 3.7 | 3.5 |
| 22.... | 18 | ..... | ..... | ..... | ..... | ..... | 37 | 66 | 12 | 4.6 | 4.0 | 3.2 |
| 23.... | 17 | ..... | ..... | ..... | ..... | ..... | 40 | 67 | 13 | 4.0 | 2.7 | 2.9 |
| 24.... | 17 | ..... | ..... | ..... | ..... | ..... | 37 | 64 | 15 | 3.7 | 2.9 | 2.9 |
| 25.... | 17 | ..... | ..... | ..... | ..... | ..... | 35 | 60 | 15 | 4.3 | 3.7 | 2.9 |
| 26.... | 17 | ..... | ..... | ..... | ..... | ..... | 35 | 50 | 14 | 4.6 | 6.2 | 3.5 |
| 27.... | 16 | ..... | ..... | ..... | ..... | ..... | 39 | 46 | 13 | 4.9 | 4.3 | 3.5 |
| 28.... | 16 | ..... | ..... | ..... | ..... | Mar. 30 | 45 | 45 | 13 | 9.8 | 4.0 | 3.2 |
| 29.... | 13 | ..... | ..... | ..... | ..... | to 31 | 38 | 45 | 12 | 9.4 | 3.7 | 3.2 |
| 30.... | 13 | ..... | ..... | ..... | ..... | 6.6 | 50 | 45 | 12 | 15 | 4.0 | 3.2 |
| 31.... | 11 | ..... | ..... | ..... | ..... | 6.6 | ..... | 54 | ..... | 8.9 | 3.7 | ..... |
| Total | 499.1 | ..... | ..... | ..... | ..... | 13.2 | 733 | 1689 | 733 | 232.8 | 134.6 | 107.0 |
| Mean. | 16.1 | ..... | ..... | ..... | ..... | 6.6 | 24.4 | 54.5 | 24.4 | 7.51 | 4.34 | 3.57 |
| Max.. | 30 | ..... | ..... | ..... | ..... | 6.6 | 50 | 73 | 61 | 15 | 6.6 | 4.9 |
| Min.. | 7.6 | ..... | ..... | ..... | ..... | 6.6 | 12 | 31 | 12 | 3.7 | 2.7 | 2.6 |
| Acre-ft. | 990 | ..... | ..... | ..... | ..... | 26 | 1450 | 3350 | 1450 | 462 | 267 | 212 |

Total run-off for period=8,207 acre-feet.

**Discharge of Kerber Creek at Ashley Ranch Near Villa Grove, Colorado, for Year Ending
Sept. 30, 1940.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|--------|-------|-------|-------|-------|-------|------|-------|------|------|-------|
| 1.... | 3.5 | 2.3 | ..... | ..... | ..... | ..... | 6.0 | 12 | 22 | 5.1 | 2.6 | 3.2 |
| 2.... | 3.2 | 2.6 | ..... | ..... | ..... | ..... | 5.7 | 13 | 22 | 4.9 | 2.3 | 2.9 |
| 3.... | 2.9 | 2.4 | ..... | ..... | ..... | ..... | 5.7 | 15 | 21 | 4.3 | 2.4 | 2.7 |
| 4.... | 2.7 | 1.9 | ..... | ..... | ..... | ..... | 5.3 | 16 | 18 | 4.0 | 1.9 | 2.6 |
| 5.... | 2.7 | 2.1 | ..... | ..... | ..... | ..... | 5.1 | 19 | 17 | 3.7 | 1.9 | 2.4 |
| 6.... | 2.7 | 2.7 | ..... | ..... | ..... | ..... | 4.6 | 20 | 16 | 5.1 | 2.4 | 2.4 |
| 7.... | 2.7 | 1.9 | ..... | ..... | ..... | ..... | 4.6 | 22 | 15 | 4.6 | 3.7 | 2.4 |
| 8.... | 4.0 | 1.6 | ..... | ..... | ..... | ..... | 4.9 | 22 | 14 | 3.7 | 2.6 | 2.3 |
| 9.... | 4.0 | 2.1 | ..... | ..... | ..... | ..... | 4.6 | 22 | 13 | 2.9 | 2.3 | 2.7 |
| 10.... | 2.9 | 1.8 | ..... | ..... | ..... | ..... | 3.7 | 23 | 13 | 2.7 | 2.1 | 2.7 |
| 11.... | 2.7 | 1.9 | ..... | ..... | ..... | ..... | 4.6 | 23 | 12 | 2.9 | 2.3 | 2.7 |
| 12.... | 2.9 | 2.1 | ..... | ..... | ..... | ..... | 5.4 | 26 | 12 | 2.9 | 1.6 | 3.7 |
| 13.... | 3.2 | 1.9 | ..... | ..... | ..... | ..... | 7.5 | 25 | 12 | 2.7 | 1.3 | 4.0 |
| 14.... | 3.5 | ..... | ..... | ..... | ..... | ..... | 8.9 | 25 | 12 | 2.4 | 1.2 | 4.0 |
| 15.... | 3.7 | ..... | ..... | ..... | ..... | ..... | 8.5 | 26 | 16 | 2.4 | 1.3 | 2.7 |
| 16.... | 3.5 | ..... | ..... | ..... | ..... | ..... | 7.5 | 28 | 16 | 2.6 | 1.2 | 2.7 |
| 17.... | 3.5 | ..... | ..... | ..... | ..... | ..... | 8.0 | 30 | 12 | 2.7 | 1.2 | 2.7 |
| 18.... | 3.5 | ..... | ..... | ..... | ..... | ..... | 9.4 | 28 | 12 | 2.1 | 1.6 | 3.5 |
| 19.... | 3.5 | ..... | ..... | ..... | ..... | ..... | 12 | 23 | 9.8 | 2.3 | 2.4 | 3.7 |
| 20.... | 3.5 | ..... | ..... | ..... | ..... | ..... | 14 | 21 | 9.4 | 2.6 | 2.3 | 3.2 |
| 21.... | 3.2 | ..... | ..... | ..... | ..... | ..... | 15 | 21 | 8.9 | 3.7 | 2.3 | 4.0 |
| 22.... | 3.5 | ..... | ..... | ..... | ..... | ..... | 15 | 19 | 9.4 | 2.7 | 4.6 | 8.5 |
| 23.... | 3.5 | ..... | ..... | ..... | ..... | ..... | 15 | 19 | 8.5 | 2.7 | 7.5 | 5.4 |
| 24.... | 3.5 | ..... | ..... | ..... | ..... | ..... | 16 | 18 | 8.0 | 2.6 | 5.1 | 5.7 |
| 25.... | 3.2 | ..... | ..... | ..... | ..... | ..... | 15 | 18 | 7.1 | 2.1 | 6.6 | 4.9 |
| 26.... | 4.6 | ..... | ..... | ..... | ..... | ..... | 15 | 19 | 7.1 | 2.1 | 5.1 | 4.6 |
| 27.... | 3.7 | ..... | ..... | ..... | ..... | ..... | 15 | 21 | 5.7 | 2.9 | 4.0 | 4.3 |
| 28.... | 2.8 | ..... | ..... | ..... | ..... | ..... | 12 | 21 | 5.7 | 2.9 | 3.7 | 4.3 |
| 29.... | 3.8 | ..... | ..... | ..... | ..... | ..... | 12 | 20 | 5.7 | 2.7 | 3.5 | 4.3 |
| 30.... | 3.6 | Nov. 1 | ..... | ..... | ..... | ..... | 12 | 21 | 5.7 | 4.9 | 3.2 | 5.1 |
| 31.... | 3.7 | to 13 | ..... | ..... | ..... | ..... | ..... | 22 | ..... | 4.0 | 3.2 | ..... |
| Total | 103.9 | 27.3 | ..... | ..... | ..... | ..... | 278.0 | 658 | 366.0 | 99.9 | 89.4 | 110.3 |
| Mean. | 3.35 | 2.10 | ..... | ..... | ..... | ..... | 9.27 | 21.2 | 12.2 | 3.22 | 2.88 | 3.68 |
| Max.. | 4.6 | 2.7 | ..... | ..... | ..... | ..... | 16 | 30 | 22 | 5.1 | 7.5 | 8.5 |
| Min.. | 2.7 | 1.6 | ..... | ..... | ..... | ..... | 3.7 | 12 | 5.7 | 2.1 | 1.2 | 2.3 |
| Acre-ft. | 206 | 54 | ..... | ..... | ..... | ..... | 551 | 1310 | 726 | 198 | 177 | 219 |

Total run-off for period=3,440 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Crestone Creek Near Crestone, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|--------|------|------|------|------|-------|------|------|-------|-------|-------|
| 1.... | 11 | 11 | .... | .... | .... | .... | 5.8 | 42 | 45 | 14 | 7.2 | 3.4 |
| 2.... | 10 | 11 | .... | .... | .... | .... | 6.0 | 45 | 42 | 14 | 7.7 | 3.0 |
| 3.... | 10 | 11 | .... | .... | .... | .... | 6.8 | 39 | 48 | 14 | 7.2 | 2.5 |
| 4.... | 9.8 | 10 | .... | .... | .... | .... | 7.7 | 35 | 55 | 14 | 6.4 | 2.3 |
| 5.... | 9.5 | 9.2 | .... | .... | .... | .... | 7.9 | 38 | 55 | 14 | 6.0 | 2.5 |
| 6.... | 9.2 | 9.2 | .... | .... | .... | .... | 8.8 | 36 | 43 | 13 | 5.8 | 3.2 |
| 7.... | 11 | .... | .... | .... | .... | .... | 7.4 | 29 | 36 | 13 | 5.8 | 3.2 |
| 8.... | 15 | .... | .... | .... | .... | .... | 7.0 | 32 | 34 | 13 | 5.2 | 4.2 |
| 9.... | 14 | .... | .... | .... | .... | .... | 7.9 | 41 | 36 | 13 | 4.6 | 4.2 |
| 10.... | 14 | .... | .... | .... | .... | .... | 7.2 | 46 | 34 | 12 | 4.2 | 4.2 |
| 11.... | 14 | .... | .... | .... | .... | .... | 6.6 | 40 | 34 | 12 | 3.6 | 4.0 |
| 12.... | 14 | .... | .... | .... | .... | .... | 6.6 | 34 | 33 | 11 | 3.2 | 3.8 |
| 13.... | 15 | .... | .... | .... | .... | .... | 7.7 | 35 | 34 | 10 | 3.2 | 4.2 |
| 14.... | 17 | .... | .... | .... | .... | .... | 8.5 | 35 | 34 | 9.2 | 3.2 | 1.2 |
| 15.... | 21 | .... | .... | .... | .... | .... | 7.9 | 36 | 32 | 8.8 | 2.8 | 2.0 |
| 16.... | 31 | .... | .... | .... | .... | .... | 6.8 | 36 | 29 | 8.5 | 2.6 | 1.6 |
| 17.... | 34 | .... | .... | .... | .... | .... | 6.2 | 35 | 27 | 7.9 | 2.3 | 1.4 |
| 18.... | 29 | .... | .... | .... | .... | .... | 6.0 | 47 | 25 | 7.4 | 2.3 | 1.3 |
| 19.... | 26 | .... | .... | .... | .... | .... | 6.2 | 56 | 21 | 7.2 | 2.1 | 1.2 |
| 20.... | 22 | .... | .... | .... | .... | .... | 7.4 | 55 | 18 | 6.8 | 2.5 | 1.1 |
| 21.... | 20 | .... | .... | .... | .... | .... | 12 | 54 | 16 | 6.8 | 3.4 | 1.0 |
| 22.... | 17 | .... | .... | .... | .... | .... | 16 | 52 | 16 | 6.8 | 3.4 | 9.2 |
| 23.... | 16 | .... | .... | .... | .... | .... | 18 | 47 | 18 | 6.2 | 2.6 | 8.5 |
| 24.... | 15 | .... | .... | .... | .... | .... | 13 | 29 | 18 | 5.6 | 2.1 | 7.9 |
| 25.... | 14 | .... | .... | .... | .... | .... | 12 | 32 | 17 | 5.6 | 2.3 | 7.9 |
| 26.... | 14 | .... | .... | .... | .... | .... | 12 | 26 | 16 | 5.8 | 3.6 | 8.3 |
| 27.... | 14 | .... | .... | .... | .... | .... | 17 | 26 | 15 | 7.0 | 4.2 | 7.4 |
| 28.... | 13 | .... | .... | .... | .... | .... | 36 | 28 | 14 | 7.0 | 4.0 | 7.2 |
| 29.... | 13 | .... | .... | .... | .... | .... | 45 | 39 | 14 | 7.4 | 4.6 | 7.2 |
| 30.... | 12 | Nov. 1 | .... | .... | .... | .... | 42 | 45 | 15 | 9.8 | 4.0 | 7.0 |
| 31.... | 12 | to 6 | .... | .... | .... | .... | .... | 43 | .... | 7.9 | 3.4 | .... |
| Total | 496.5 | 61.4 | .... | .... | .... | .... | 365.4 | 1213 | 874 | 298.7 | 125.5 | 223.3 |
| Mean. | 16.0 | 10.2 | .... | .... | .... | .... | 12.2 | 39.1 | 29.1 | 9.64 | 4.05 | 7.44 |
| Max.. | 34 | 11 | .... | .... | .... | .... | 45 | 56 | 55 | 14 | 7.7 | 2.0 |
| Min.. | 9.2 | 9.2 | .... | .... | .... | .... | 5.8 | 26 | 14 | 5.6 | 2.1 | 2.3 |
| Acre-ft. | 985 | 122 | .... | .... | .... | .... | 725 | 2410 | 1730 | 592 | 249 | 443 |

Total run-off for period=7,256 acre-feet.

Discharge of North Crestone Creek Near Crestone, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|--------|------|------|------|------|------|-------|------|------|-------|-------|
| 1.... | 6.8 | 3.6 | .... | .... | .... | .... | 5.2 | 12 | 47 | 15 | 6.2 | 6.4 |
| 2.... | 6.6 | 3.6 | .... | .... | .... | .... | 5.4 | 18 | 43 | 13 | 6.0 | 6.1 |
| 3.... | 6.6 | 3.6 | .... | .... | .... | .... | 5.0 | 33 | 40 | 12 | 5.6 | 6.1 |
| 4.... | 6.2 | 3.6 | .... | .... | .... | .... | 5.0 | 41 | 34 | 12 | 5.2 | 5.8 |
| 5.... | 6.2 | 3.6 | .... | .... | .... | .... | 4.8 | 40 | 32 | 11 | 5.2 | 5.4 |
| 6.... | 5.8 | 3.8 | .... | .... | .... | .... | 4.8 | 34 | 31 | 9.6 | 5.4 | 5.3 |
| 7.... | 5.2 | 3.8 | .... | .... | .... | .... | 4.6 | 35 | 29 | 9.4 | 5.7 | 5.7 |
| 8.... | 5.6 | 3.8 | .... | .... | .... | .... | 4.4 | 33 | 27 | 9.2 | 5.1 | 6.1 |
| 9.... | 5.8 | 4.0 | .... | .... | .... | .... | 4.2 | 34 | 25 | 8.8 | 4.6 | 5.8 |
| 10.... | 5.2 | 4.0 | .... | .... | .... | .... | 4.2 | 41 | 22 | 8.6 | 4.6 | 6.1 |
| 11.... | 5.2 | 4.0 | .... | .... | .... | .... | 4.0 | 41 | 21 | 8.6 | 4.6 | 6.1 |
| 12.... | 5.2 | 4.2 | .... | .... | .... | .... | 3.8 | 40 | 23 | 9.4 | 4.2 | 5.8 |
| 13.... | 5.2 | 4.2 | .... | .... | .... | .... | 4.0 | 43 | 27 | 11 | 3.8 | 6.0 |
| 14.... | 4.8 | 4.2 | .... | .... | .... | .... | 4.6 | 43 | 30 | 9.4 | 3.5 | 6.1 |
| 15.... | 4.4 | 4.6 | .... | .... | .... | .... | 5.2 | 43 | 29 | 9.0 | 3.4 | 5.8 |
| 16.... | 4.4 | .... | .... | .... | .... | .... | 4.8 | 42 | 25 | 8.6 | 3.6 | 5.4 |
| 17.... | 4.2 | .... | .... | .... | .... | .... | 4.6 | 41 | 22 | 8.2 | 3.6 | 6.0 |
| 18.... | 3.8 | .... | .... | .... | .... | .... | 5.4 | 35 | 21 | 7.8 | 3.7 | 6.1 |
| 19.... | 4.0 | .... | .... | .... | .... | .... | 8.3 | 33 | 18 | 7.3 | 3.8 | 6.0 |
| 20.... | 4.0 | .... | .... | .... | .... | .... | 12 | 32 | 18 | 7.2 | 4.4 | 5.7 |
| 21.... | 4.0 | .... | .... | .... | .... | .... | 12 | 30 | 18 | 7.4 | 4.9 | 6.2 |
| 22.... | 4.0 | .... | .... | .... | .... | .... | 13 | 29 | 18 | 7.0 | 4.9 | 8.0 |
| 23.... | 4.0 | .... | .... | .... | .... | .... | 15 | 29 | 18 | 6.6 | 6.4 | 9.2 |
| 24.... | 4.0 | .... | .... | .... | .... | .... | 17 | 29 | 17 | 6.1 | 9.2 | 11 |
| 25.... | 3.8 | .... | .... | .... | .... | .... | 18 | 29 | 17 | 5.8 | 12 | 15 |
| 26.... | 3.8 | .... | .... | .... | .... | .... | 20 | 31 | 15 | 6.6 | 10 | 16 |
| 27.... | 3.8 | .... | .... | .... | .... | .... | 5.8 | 19 | 33 | 14 | 9.4 | 15 |
| 28.... | 3.6 | .... | .... | .... | .... | .... | 5.8 | 15 | 36 | 13 | 7.2 | 8.8 |
| 29.... | 3.8 | .... | .... | .... | .... | .... | 5.4 | 14 | 41 | 14 | 6.7 | 8.0 |
| 30.... | 3.4 | Nov. 1 | .... | .... | .... | .... | 5.4 | 12 | 45 | 16 | 7.3 | 7.3 |
| 31.... | 3.6 | to 15 | .... | .... | .... | .... | 5.4 | .... | 47 | .... | 7.0 | .... |
| Total | 147.0 | 58.6 | .... | .... | .... | .... | 27.8 | 259.3 | 1093 | 724 | 270.1 | 180.1 |
| Mean. | 4.74 | 3.91 | .... | .... | .... | .... | 5.56 | 8.64 | 35.3 | 24.1 | 8.71 | 5.81 |
| Max.. | 6.8 | 4.6 | .... | .... | .... | .... | 5.8 | 20 | 47 | 47 | 15 | 12 |
| Min.. | 3.4 | 3.6 | .... | .... | .... | .... | 5.4 | 3.8 | 12 | 13 | 5.8 | 3.4 |
| Acre-ft. | 292 | 116 | .... | .... | .... | .... | 55 | 514 | 2170 | 1440 | 536 | 357 |

Total run-off for period=5,950 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

COLORADO RIVER BASIN

COLORADO RIVER NEAR GRAND LAKE, COLORADO

Location—Water stage recorder in Sec. 13, T. 3 N., R. 76 W., 3 miles south of Grand Lake, Grand Lake Outlet enters $\frac{1}{2}$ mile downstream.

Drainage Area—101 square miles.

Records Available—August, 1904, to September, 1909; October, 1910, to September 30, 1918; May 11, 1934, to September 30, 1940.

Maximum discharge observed during period 1904-09, 1910-18, 1934-40; 1,840 second feet, June 15, 16, 1918. Gage height 7.00 feet, former site and datum.

Maximum Discharge—Year 1939; 557 second feet, June 1, 1939. Gage height 4.12 feet.

Maximum Discharge—Year 1940; 406 second feet, June 3, 1940. Gage height 3.79 feet.

Accuracy—Records considered excellent except those for period of ice effect, November 6-9, November 12, 1938, to March 29, 1939, October 30, 31, November 9-30, December 3-20, December 21, 24, 27, 28, January 7, 8, 11-23, February 14-27, March 3-5, 7-8, 11-16, 1940, computed on basis of 3 and 2 discharge measurements, and weather records, and which are good.

Diversions for irrigation above station. Grand River Trans-Mountain diversion from headwaters into Cache la Poudre River Basin.

COLORADO RIVER NEAR GRANBY, COLORADO

Location—Water stage recorder in Sec. 22, T. 2 N., R. 76 W., 4 miles northeast of Granby and $1\frac{1}{2}$ miles upstream from Willow Creek.

Drainage Area—322 square miles.

Records Available—June, 1908, to September, 1911; May 12, 1934, to September 30, 1940.

Maximum discharge observed during period 1908-11, 1934-40; 4,100 second feet, June 20, 1909. Gage height 5.50 feet (former datum).

Maximum Discharge—Year 1939; 2,070 second feet, June 1, 1939. Gage height 3.87 feet.

Maximum Discharge—Year 1940; 1,860 second feet, June 2, 1940. Gage height 3.68 feet.

Accuracy—Records considered excellent except for period of ice effect, November 13, 1938, to April 1, 1939, and November 10-15, November 18, 1939, to April 15, 1940, which were computed

on basis of 4 discharge measurements, weather records, and records for stations near Grand Lake and Hot Sulphur Springs, and are fair.

Diversions for irrigation above station.

COLORADO RIVER NEAR HOT SULPHUR SPRINGS, COLORADO.

Location—Water stage recorder in Sec. 1, T. 1 N., R. 78 W., 1 mile east of Hot Sulphur Springs at Thompson's ranch, and 3 miles upstream from Beaver Creek.

Drainage Area—782 square miles. Altitude, 7,680 feet above mean sea level.

Records Available—July, 1904, to September, 1909; September, 1910, to September, 1924; October, 1925, to September 30, 1940. Chain gage prior to September 19, 1930, 1½ miles downstream from present site. Records comparable.

Maximum discharge observed during period 1904-09, 1910-24, 1925-40; 10,300 second feet, June 15, 1921. Gage height 8.7 feet, former site and datum.

Maximum Discharge—Year 1939; 3,630 second feet, June 1, 1939. Gage height 3.74 feet.

Maximum Discharge—Year 1940; 2,820 second feet, June 2, 1940. Gage height 3.29 feet.

Accuracy—Records considered good, except for ice effect period November 13, 1938, to March 31, 1939; November 16, 1939, to March 25, 1940, which were computed on basis of 4 and 5 discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

COLORADO RIVER AT GLENWOOD SPRINGS, COLORADO

Location—Water stage recorder in Sec. 9, T. 6 S., R. 89 W., at Glenwood Springs, opposite D. & R. G. W. R. R. depot, ½ mile above mouth of Roaring Fork.

Drainage Area—4,560 square miles. Zero of gage is 5,720.71 feet above mean sea level.

Records Available—May 12, 1899, to September 30, 1940.

Maximum discharge observed during period 1899-1940; 30,100 second feet, June 14, 15, 1918. Gage height 12.55 feet.

Maximum Discharge—Year 1939; 13,100 second feet, May 23, 1939. Gage height 8.48 feet.

Maximum Discharge—Year 1940; 11,100 second feet, June 3, 1940. Gage height 7.90 feet.

Accuracy—Records considered excellent.

Diversion for irrigation and trans-mountain diversion above station. During low-water period flow is regulated by Shoshone Power Plant, 6 miles upstream.

COLORADO RIVER NEAR CAMEO, COLORADO

Location—Water stage recorder in Sec. 6, T. 10 S., R. 97 W., 6.7 miles northeast of Cameo and 3.4 miles above mouth of Plateau Creek.

Drainage Area—8,055 square miles.

Records Available—October, 1933, to September 30, 1940.

Maximum discharge observed during period 1933-40; 36,000 second feet June 16, 1935. Gage height 10.91 feet.

Maximum Discharge—Year 1939; 19,900 second feet, May 23, 1939. Gage height 8.44 feet.

Maximum Discharge—Year 1940; 16,600 second feet, June 3, 1940. Gage height 7.82 feet.

Accuracy—Records considered excellent except for periods of ice effect, November 25 to December 5, December 17, 1938, to March 18, 1939, and December 18, 19, December 26, 1939, to January 5, January 15 to February 10, 1940, computed on basis of combined flow of Colorado River and Roaring Fork at Glenwood Springs.

Diversions for irrigation above station.

COLORADO RIVER NEAR CISCO, UTAH

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 17, T. 23 S., R. 24 E., Salt Lake Meridian, 1 mile below mouth of Dolores River and 11 miles south of Cisco.

Drainage Area—24,100 square miles. Altitude, 4,088 feet above mean sea level.

Records Available—November, 1914, to September, 1917; October, 1922, to September, 30, 1940.

Maximum discharge observed during period 1914-17, 1922-40; 76,800 second feet, June 19, 1917. Gage height 19.7 feet.

Maximum Discharge—Year 1939; 25,400 second feet, May 24, 1939. Gage height 9.63 feet.

Maximum Discharge—Year 1940; 25,390 second feet, May 14, 1940. Gage height 9.37 feet.

Accuracy—Records considered excellent except those for period of ice effect December to March, computed on basis of records for other stations and discharge measurements.

Diversions for irrigation above station.

ARAPAHOE CREEK BELOW MONARCH LAKE,
COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 15, T. 2 N., R. 75 W., 700 feet below mouth of Roaring Fork and 10 miles of Granby.

Drainage Area—59 square miles. Zero of gage is 8,244.30 feet above mean sea level.

Records Available—June, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40, 1,380 second feet, June 22, 1938. Gage height 4.31 feet.

Maximum Discharge—Year 1939; 628 second feet, May 31, 1939. Gage height 2.73 feet.

Maximum Discharge—Year 1940; 686 second feet, June 2, 1940. Gage height 2.74 feet.

Accuracy—Records considered good, except for ice period November 6-9, 11-16, November 20, 1938, to April 1, 1939 (computed on basis of discharge measurements and weather records), and those for April 19 to April 24, 1939 (estimated). Those for period of ice effect December 13 to April 6, 1940, were computed on basis of 3 discharge measurements and weather records.

Small diversions for irrigation above station. Flow partly regulated by Monarch Lake. Several second feet diverted around station by power canal during summer.

WILLOW CREEK NEAR GRANBY, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 34, T. 3 N., R. 77 W., at highway bridge 7 miles northwest of Granby. Gold Run Creek enters 100 feet above station.

Drainage Area—105 square miles. Zero of gage is 8,240.99 feet above mean sea level.

Records Available—April, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40; 811 second feet, May 16, 1938. Gage height 4.49 feet.

Maximum Discharge—Year 1939; 563 second feet, May 20, 1939. Gage height 3.69 feet.

Maximum Discharge—Year 1940; 303 second feet, May 13, 1940. Gage height 2.81 feet.

Accuracy—Records considered good except those for ice effect period November 7, 1938, to March 29, 1939 (computed on basis of 3 discharge measurements and weather records), and for October 30, 31, November 10, 1939, to March 27, 1940 (computed on basis of 3 discharge measurements and weather records), and are fair.

Diversions for irrigation of hay meadows above station.

FRASER RIVER NEAR WINTER PARK (WEST PORTAL) (ARROW), COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 4, T. 2 S., R. 75 W., $1\frac{1}{2}$ miles northwest of Winter Park and $2\frac{1}{2}$ miles downstream from point of diversion for Moffat Tunnel.

Drainage Area—28 square miles. Altitude, 9,500 feet above mean sea level.

Records Available—September 23, 1910, to September 30, 1940.

Maximum discharge observed during period 1910-40; 820 second feet, June 13, 1918. Gage height 2.9 feet.

Maximum Discharge—Year 1939; 167 second feet, June 5, 1939. Gage height 1.44 feet.

Maximum Discharge—Year 1940; 35 second feet, April 19, 1940. Gage height 0.71 feet.

Accuracy—Records considered good, except those for period of ice effect during November, 1938, to April, 1939, November 10, 1939, to January 26, 1940, February 10 to March 17 and April 12, computed on basis of 3 discharge measurements, weather records and records for adjacent stations, and are fair.

Trans-Mountain diversions above station. The Pioneer Bore of the Moffat Tunnel has diverted water above this station since June 9, 1936. The combined flow of this diversion and Fraser River is comparable with records prior to June 9, 1936.

FRASER RIVER AT GRANBY, COLORADO

Location—Water stage recorder in Sec. 1, T. 1 N., R. 76 $\frac{1}{2}$ W., 300 feet below county bridge, $\frac{1}{2}$ mile southwest of Granby. Fraser River enters Colorado River $2\frac{1}{2}$ miles downstream.

Drainage Area—285 square miles.

Records Available—August, 1904, to September, 1909, September 15, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 1,080 second feet, May 30, 1938. Gage height 2.76 feet.

Maximum Discharge—Year 1939; 984 second feet, June 1, 1939. Gage height 2.60 feet.

Maximum Discharge—Year 1940; 517 second feet June 3, 1940. Gage height 1.88 feet.

Accuracy—Records considered excellent except for ice effect period from November 14, 1938, to March 31, 1939, and those for period of ice effect October 31, 1939, November 1, 2, November 10 to March 28, 1940, computed on basis of 4 discharge measurements and weather records, and by comparison with records of adjacent stations.

Trans-mountain diversions above station as well as diversions for irrigation.

VASQUEZ CREEK NEAR WINTER PARK, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 33, T. 1 S., R. 75 W., just below main highway, 2 $\frac{1}{2}$ miles northwest of Winter Park, and $\frac{1}{4}$ mile above mouth. Station is 1 $\frac{1}{2}$ miles downstream from point of Moffat Tunnel diversion. Present gage is $\frac{3}{4}$ mile downstream from site used in 1907-9.

Drainage Area—27.8 square miles. Zero of gage is 8,768.48 feet above mean sea level.

Records Available—June, 1907, to October, 1909; August, 1934, to September 30, 1940.

Maximum discharge observed during period 1934-40; 396 second feet, June 15, 1935. Gage height 2.64 feet.

Maximum Discharge—Year 1939; no maximum determined on account of bridge construction.

Maximum Discharge—Year 1940; 19 second feet, April 22, 1940. Gage height 1.12 feet.

Accuracy—Records considered good except those for ice effect period, November 3-28, 1938, December 11-15, and October 27, 1939, to March 2, 1940, March 12-16, computed on basis of 2 discharge measurements, weather records and records for Fraser River near West Portal, and are fair. The Pioneer Bore of Moffat Tunnel started diverting water above this station May 26, 1937. Records of combined flow of this diversion and of Vasquez Creek are equivalent to records of flow of creek prior to May 26, 1937. See Correction Table published with runoff data for this station.

ST. LOUIS CREEK NEAR FRASER, COLORADO

Location—Water stage recorder in Sec. 34, T. 1 S., R. 76 W., $\frac{1}{3}$ mile below junction of East and West Branches and 4 $\frac{1}{2}$ miles southwest of Fraser. In 1907-9 site maintained 2 miles upstream. Records not comparable.

Drainage Area—32.8 square miles.

Records Available—June, 1907, to September, 1909; August, 1934, to September 30, 1940.

Maximum discharge observed during period 1934-40; 353 second feet, June 15, 1935. Gage height 2.58 feet.

Maximum Discharge—Year 1939; 256 second feet, May 31, 1939. Gage height 2.32 feet.

Maximum Discharge—Year 1940; 175 second feet, June 2, 1940. Gage height 2.02 feet.

Accuracy—Records considered good except those for periods of ice effect November 3 to December 6, December 14-16, 27, 1938; January 24-26, March 1-6, and October 28, 30, 31, November 1, 3, 4, November 7 to December 29, 1939; January 18-19, 29-31, February 1, 2, 17, March 4, 5, 12-16, April 12, 1940, computed on basis of 1 discharge measurement, weather records, and are fair.

RANCH CREEK ABOVE FORKS NEAR FRASER, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 24, T. 1 S., R. 75 W., 0.8 miles upstream from North Fork and 4 miles east of Fraser.

Drainage Area—3.8 square miles.

Records Available—April 1, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 67 second feet, June 21, 1938. Gage height 3.45 feet.

Maximum Discharge—Year 1939; 34 second feet, May 31, 1939. Gage height 2.73 feet.

Maximum Discharge—Year 1940; 46 second feet, June 4, 1940. Gage height 1.95 feet.

Accuracy—Records considered fair. For periods of ice effect records computed on basis of 2 discharge measurements and records for station on Ranch Creek near Fraser.

No diversions for irrigation above station.

RANCH CREEK NEAR FRASER, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 22, T. 1 S., R. 75 W., 150 yards downstream from junction of South Fork and Ranch Creeks and 3 miles east of Fraser at Arkall Ranch.

Drainage Area—19.9 square miles.

Records Available—August, 1934, to September 30, 1940.

Maximum discharge observed during period 1934-40; 299 second feet, June 15, 1935. Gage height 3.37 feet.

Maximum Discharge—Year 1939; 184 second feet, May 31, 1939. Gage height 2.68 feet.

Maximum Discharge—Year 1940; 266 second feet, June 21, 1938. Gage height 3.35 feet.

Accuracy—Records considered good, except for periods of ice effect November 6-10, 1938, and for period of ice effect October 28, 30, 31, November 4, November 7 to January 5, 1940, computed on basis of weather records and records for adjacent stations, and which are fair.

No diversions above station.

RANCH CREEK NEAR TABERNASH, COLORADO

Location—Water stage recorder in Sec. 6, T. 1 S., R. 75 W., $\frac{1}{4}$ mile upstream from Meadow Creek and $1\frac{1}{2}$ miles east of Tabernash.

Drainage Area—50.7 square miles.

Records Available—September, 1934, to September 30, 1940.

Maximum discharge observed during period 1934-40; 506 second feet, June 15, 1935. Gage height 4.40 feet.

Maximum Discharge—Year 1939; 324 second feet, May 31, 1939. Gage height 3.70 feet.

Maximum Discharge—Year 1940; 250 second feet, June 2, 1940. Gage height 3.37 feet.

Accuracy—Records considered good, except those for periods of ice effect, October 24, 1938, to February 10, 1939, March 20 to April 10, 1939, and November 22 to April 3, 1940, April 12-15, 1940, computed on basis of 3 discharge measurements, weather records, and records for station near Fraser, and are fair.

Diversions for irrigation above station.

NORTH FORK OF RANCH CREEK NEAR FRASER, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 23, T. 1 S., R. 75 W., 0.6 mile above mouth and 4 miles east of Fraser.

Drainage Area—3.4 square miles.

Records Available—April, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 62 second feet, June 21, 1938. Gage height 2.00 feet.

Maximum Discharge—Year 1939; 38 second feet, May 31, 1939. Gage height 1.75 feet.

Maximum Discharge—Year 1940; 31 second feet, June 2, 1940. Gage height 1.68 feet.

Accuracy—Records considered good above 10 second feet, and fair below.

No diversions above station.

MIDDLE FORK OF RANCH CREEK NEAR FRASER, COLORADO

Location—Water stage recorder on line between Sections 25 and 26, T. 1 S., R. 75 W., 1.6 miles above mouth of South Fork and 4.2 miles east of Fraser.

Drainage Area—4.4 square miles.

Records Available—April, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 124 second feet, June 21, 1938. Gage height 1.88 feet.

Maximum Discharge—Year 1939; 68 second feet, May 31, 1939. Gage height 1.51 feet.

Maximum Discharge—Year 1940; 110 second feet, June 3, 1940. Gage height 1.75 feet.

Accuracy—Records considered good except those for period of ice effect, October 25, 1938, to April 24, 1939, October 27-31, 1939, and April 29 to May 19, 1940, computed on basis of record for Ranch Creek near Fraser, and are fair.

No diversions above station.

SOUTH FORK OF RANCH CREEK NEAR WINTER PARK, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 35, T. 1 S., R. 75 W., 2.8 miles above mouth and 5 miles northeast of West Portal.

Drainage Area—2.4 square miles.

Records Available—November, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 59 second feet, June 1, 1938. Gage height 1.43 feet.

Maximum Discharge—Year 1939; 58 second feet, May 22, 1939. Gage height 1.36 feet.

Maximum Discharge—Year 1940; 24 second feet, June 1, 1940. Gage height 1.14 feet.

Accuracy—Records considered good except for ice effect period October 25-31, 1938, April 1-24, 1939, which were computed on basis of record for station on Ranch Creek near Fraser, and are fair.

No diversions above station.

MEADOW CREEK NEAR TABERNASH, COLORADO

Location—Water stage recorder in Sec. 15, T. 1 N., R. 75 W., 4.3 miles northeast of Tabernash.

Drainage Area—7.0 square miles.

Records Available—May 27, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 197 second feet, June 3, 1938. Gage height 3.67 feet.

Maximum Discharge—Year 1939; 188 second feet, May 31, 1939. Gage height 3.52 feet.

Maximum Discharge—Year 1940; 148 second feet May 31, 1940. Gage height 3.22 feet.

Accuracy—Records considered fair, except those for periods of missing gage heights and ice effect, October 19-22, 1938, November 1 to April 9, 1939, April 23-25, and December 9, 1939, to May 16, 1940, computed on basis of 3 discharge measurements, weather records, and by comparison with flow of Arapahoe Creek near Monarch, and are poor.

No diversions above station.

STRAWBERRY CREEK NEAR GRANBY, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 32, T. 2 N., R. 75 W., 0.6 miles below Little Strawberry Creek, and 6 miles east of Granby.

Drainage Area—12.6 square miles.

Records Available—May 28, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 132 second feet, May 29, 1938. Gage height 2.91 feet.

Maximum Discharge—Year 1939; 71 second feet, May 2, 1939. Gage height 2.12 feet.

Maximum Discharge—Year 1940; 48 second feet, May 11, 1940. Gage height 1.66 feet.

Accuracy—Records considered good except for periods of ice effect, November 9-30, 1938, and from March 23 to April 22, 1940, computed on basis of discharge measurements and weather records, and which are fair.

Two diversions for irrigation above station.

WILLIAMS FORK RIVER BELOW STEELMAN CREEK, COLORADO

Location—Water stage recorder in Sec. 20, T. 3 S., R. 76 W., just below mouth of Steelman Creek, and 7 miles southeast of Leal.

Drainage Area—16.3 square miles.

Records Available—June 23, 1933, to September 30, 1940.

Maximum discharge observed during period 1933-40; 441 second feet, June 21, 1938. Gage height 2.48 feet.

Maximum Discharge—Year 1939; 257 second feet, June 5, 1939. Gage height 2.03 feet.

Maximum Discharge—Year 1940; 68 second feet, June 1, 1940. Gage height 1.35 feet.

Accuracy—Records considered fair. Discharge for periods of ice effect November 3, 1938, to April 26, 1939, and for October 28, 30, 31, November 4, 7, 8, November 11 to April 29, 1940, computed on basis of records for station at Leal.

Trans-Mountain diversion above station by Williams Fork Tunnel which first diverted water on May 10, 1940, to Clear Creek in South Platte basin. The combination of this flow and Williams Fork is comparable with records at this station prior to May 10, 1940. See correction table published with discharge.

WILLIAMS FORK RIVER NEAR LEAL, COLORADO

Location—Water stage recorder in Sec. 31, T. 2 S., R. 77 W., just below mouth of Kinney Creek and 2 miles north of Leal.

Drainage Area—84 square miles.

Records Available—June 19, 1933, to September 30, 1940.

Maximum discharge observed during period 1933-40; 1,530 second feet, June 21, 1938. Gage height 3.49 feet.

Maximum Discharge—Year 1939; 1,030 second feet, May 31, 1939. Gage height 3.20 feet.

Maximum Discharge—Year 1940; 588 second feet, June 2, 1940. Gage height, 2.48 feet.

Accuracy—Records considered excellent except those for period of ice effect, December 14, 18, 1938, February 22, 1939, computed on basis of weather records and records at station below Steelman Creek, and are good.

Diversions for irrigation above station.

WILLIAMS FORK RIVER NEAR PARSHALL, COLORADO

Location—Water stage recorder in Sec. 1, T. 1 S., R. 79 W., just below highway bridge, 2½ miles above mouth of Battle Creek, and four miles south of Parshall.

Drainage Area—184 square miles. Zero of gage is 7,805.00 feet above mean sea level.

Records Available—July, 1904, to September, 1924; June 19, 1933, to September 30, 1940.

Maximum discharge observed during period 1904-24, 1933-40; 2,750 second feet, estimated, June 16, 1918.

Maximum Discharge—Year 1939; 795 second feet, June 1, 1939. Gage height 3.24 feet.

Maximum Discharge—Year 1940; 1,230 second feet, June 22, 1938. Gage height 3.77 feet.

Accuracy—Records considered excellent except those for ice effect, November 7, 1938, to March 28, 1939, and November 11, 1939, to December 1, December 14 to March 24, 1940, computed on basis of 3 and 2 discharge measurements and records for station at Leal, and are good.

Diversions for irrigation above station.

BLUE RIVER AT DILLON, COLORADO

Location—Water stage recorder in Sec. 18, T. 5 S., R. 77 W., at edge of Dillon, a short distance above the mouths of Snake River and Ten Mile Creek.

Drainage Area—129 square miles. Zero of gage is 8,821.42 feet above mean sea level.

Records Available—October 15, 1910, to September 30, 1940.

Maximum discharge observed during period 1910-40; 1,180 second feet, June 2, 14, 1914. Gage height 4.35 feet.

Maximum Discharge—Year 1939; 580 second feet, May 23, 1939. Gage height 3.10 feet.

Maximum Discharge—Year 1940; 392 second feet, June 2, 1940. Gage height 3.05 feet.

Accuracy—Records considered excellent except for periods of ice effect November 6, 1938, to April 8, 1939, and October 1-7, 21-24, November 10, 1939, to March 29, 1940, which were com-

puted on basis of 4 and 3 discharge measurements and weather records, and are fair.

Diversions for irrigation above station, but practically all are returned to river above station.

BLUE RIVER BELOW GREEN MOUNTAIN RESERVOIR NEAR KREMMLING, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 33, T. 1 S., R. 80 W., at Frank Stafford ranch, just downstream from Spring Creek, about 4 miles below Green Mountain Dam, and 10 miles southeast of Kremmling.

Drainage Area—623 square miles.

Records Available—October, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 4,000 second feet, June 4, 1938. Gage height 5.93 feet.

Maximum Discharge—Year 1939; 3,190 second feet, May 23, 1939. Gage height 5.33 feet.

Maximum Discharge—Year 1940; 2,800 second feet, June 2, 1940. Gage height 4.98 feet.

Accuracy—Records considered good, except those during ice period, November 12, 1938, to April 2, 1939, and November 21 to March 24, 1940, computed on basis of 4 and 3 discharge measurements during periods, weather records, and are fair.

Diversions for irrigation above station.

SNAKE RIVER AT DILLON, COLORADO

Location—Water stage recorder in Sec. 18, T. 5 S., R. 77 W., at private bridge 100 yards above mouth of river at Dillon.

Drainage Area—92 square miles. Zero of gage is 8,820.54 feet above mean sea level.

Records Available—October 15, 1910, to September 30, 1919; December, 1929, to September 30, 1940.

Maximum discharge observed during period 1910-19, 1929-40; 1,200 second feet, June 13, 1935. Gage height 4.25 feet.

Maximum Discharge—Year 1939; 580 second feet, May 22, 1939. Gage height 3.45 feet.

Maximum Discharge—Year 1940; 460 second feet, June 2, 1940. Gage height 3.27 feet.

Accuracy—Records considered excellent except those for period of ice effect, November 5-11, November 20-30, December 2, 3, December 13, 1938, to January 13, 1939, January 15, 23-28, February 1-18, 21-25, February 28 to March 12, 1939, and for period October 28 to November 1; November 9 to December 9; December 11-16, 18-30, 1939; January 7-28, 30-31, 1940; February

12-24, March 1, 13-15, 1940, computed on basis of 3 and 1 discharge measurements, gage heights and weather records, and are fair.

One diversion for power around station.

TEN MILE CREEK AT DILLON, COLORADO

Location—Water stage recorder in Sec. 18, T. 5 S., R. 77 W., 250 feet downstream from highway bridge and 200 yards above mouth at Dillon. Prior to August 5, 1939, water stage recorder at site 250 feet upstream, different datum.

Drainage Area—113 square miles. Zero of gage is 8817.97 feet above mean sea level.

Records Available—October 15, 1910, to September 30, 1919; April, 1930, to September 30, 1940.

Maximum discharge observed during period 1910-19, 1930-40; 2,010 second feet, June 1, 1933. Gage height 5.82 feet (former datum.)

Maximum Discharge—Year 1939; 1,030 second feet, May 22, 1939. Gage height 4.98 feet.

Maximum Discharge—Year 1940; 656 second feet, June 1, 1940. Gage height 3.86 feet.

Accuracy—Records considered good, except those for period of ice effect, or missing gage heights, November 6, 1938, to March 31, 1939, and July 29 to August 24, October 30, 31 and November 10, 1939, to March 19, 1940, computed on basis of 4 and 3 discharge measurements and weather records, and are fair.

Diversions for irrigation and mining above station. Robinson Reservoir (capacity 2,520 acre-feet) constructed above station November, 1936.

ROARING FORK RIVER AT ASPEN, COLORADO

Location—Water stage recorder in Sec. 7, T. 10 S., R. 84 W., at bridge near old power plant in Aspen, $\frac{3}{4}$ mile upstream from Hunter Creek. Prior to February 24, 1915, station located $\frac{1}{2}$ mile upstream from present site; February 24, 1915, to October 5, 1935, station $\frac{1}{4}$ mile downstream from present site. Records comparable.

Drainage Area—109 square miles.

Records Available—January 1, 1911, to September 30, 1921; April 24, 1932, to September 30, 1940.

Maximum discharge observed during period 1911-21, 1932-40; 3,170 second feet, June 18, 1917. Gage height 7.2 feet, former site and datum.

Maximum Discharge—Year 1939; 567 second feet, May 20, 1939. Gage height 3.53 feet.

Maximum Discharge—Year 1940; 463 second feet, June 2, 1940. Gage height 3.27 feet.

Accuracy—Records considered good except for periods of ice effect, November 13, 1938, to January 18, 1939, January 24 to March 14, 1939, and November 18-22, December 13-16, December 19, 1939, to January 5, 1940, January 8, January 13 to February 5, February 7, 13-16, 18-19, March 13, 14, 1940, computed on basis of 2 and 1 discharge measurements, weather records, and records for Crystal River at Redstone, and are fair.

Twin Lakes Trans-Mountain Tunnel diverts water 15 miles above station to Lake Creek in the Arkansas River basin. The combination of this flow and Roaring Fork is comparable with records at this station prior to May 24, 1935. See Correction Table published with discharge data for this station.

ROARING FORK RIVER AT GLENWOOD SPRINGS, COLORADO

Location—Water stage recorder in Sec. 9, T. 6 S., R. 89 W., 1,500 feet above mouth of river at Glenwood Springs.

Drainage Area—1,460 square miles. Zero of gage is 5,720.73 feet above mean sea level.

Records Available—April, 1906, to September, 1909; September, 1910, to September 30, 1940.

Maximum discharge observed during period 1906-09, 1910-40; 17,600 second feet, June 14, 1918, and June 14, 1921.

Maximum Discharge—Year 1939; 5,820 second feet; June 1, 1939. Gage height 4.61 feet.

Maximum Discharge—Year 1940; 5,320 second feet, June 1, 1940. Gage height 4.38 feet.

Accuracy—Records considered excellent above 500 feet, good below. Those for ice period January 24 to 28, 1940, computed on basis of weather records, which are good.

Diversions for irrigation above station.

CRYSTAL RIVER NEAR REDSTONE, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 9, T. 9 S., R. 88 W., 75 feet below mouth of Nettle Creek and 7 miles downstream from Redstone.

Drainage Area—197 square miles. Zero of gage is 6,485.07 feet above mean sea level.

Records Available—May 12, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40; 4,400 second feet, June 21, 1938. Gage height 5.96 feet.

Maximum Discharge—Year 1939; 1,960 second feet, June 5, 1939. Gage height 4.00 feet.

Maximum Discharge—Year 1940; 2,090 second feet, June 1, 1940. Gage height 4.14 feet.

Accuracy—Records considered good except those for Novem-

ber 5, 1938, December 15-17 and period ice effect, December 26 to December 31, 1938, and November 20, 21, 23-25, 28-30, 1939, January 15-18, 23-27, 1940, computed on basis of weather records and comparison of Roaring Fork at Glenwood Springs, all of which are fair.

Diversions for irrigation above station.

WEST DIVIDE CREEK BELOW WILLOW CREEK NEAR RAVEN, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ of Sec. 14, T. 9 S., R. 91 W., at Weatherly Ranch $\frac{1}{4}$ mile below mouth of Willow Creek and 15 miles south of Raven.

Drainage Area—32.7 square miles.

Records Available—October 1, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 271 second feet, May 9, 1940. Gage height 1.91 feet.

Maximum Discharge—Year 1939; 225 second feet, May 5, 1939. Gage height 1.80 feet.

Maximum Discharge—Year 1940; 271 second feet, May 9, 1940. Gage height 1.91 feet.

Accuracy—Records considered good except for periods of ice effect November 5-7, 13-17, November 21 to December 9, December 11, 1938, January 17 to March 15, 1939, March 20-29 and November 26-30, March 14-29, 1940, computed on basis of 1 discharge measurement and weather records, and are fair.

Trans-Mountain diversion above station from Buzzard Creek into West Divide Creek.

PLATEAU CREEK NEAR COLLBRAN, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 24, T. 9 S., R. 94 W., 7 miles east of Collbran.

Drainage Area—88 square miles.

Records Available—August 20, 1921, to September 30, 1940.

Maximum discharge observed during period 1921-40; 2,800 second feet, May 28, 1922. Gage height 6.72 feet, former datum.

Maximum Discharge—Year 1939; 828 second feet, May 19, 1939. Gage height 4.24 feet.

Maximum Discharge—Year 1940; 1,310 second feet, May 9, 1940. Gage height 4.56 feet.

Accuracy—Records considered good except those for ice effect period, November 26, 1938, to March 20, 1939, and November 20, 21, December 13, 14, December 21, 1939, to March 16, 1940, computed on basis of 2 discharge measurements and weather records, and are fair.

Five small diversions for irrigation above station.

PLATEAU CREEK NEAR CAMEO, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 18, T. 10 S., R. 97 W., 1.1 miles above mouth and 4 miles northeast of Cameo.

Drainage Area—604 square miles.

Records Available—April 26, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 2,550 second feet, May 29, 1938. Gage height 6.07 feet.

Maximum Discharge—Year 1939; 1,130 second feet, May 11, 1939. Gage height 4.07 feet.

Maximum Discharge—Year 1940; 1,800 second feet, May 13, 1940. Gage height 5.08 feet.

Accuracy—Records considered good except those for ice effect periods, November 25, 1938, December 15 to March 8, 1939, and December 20, 1939, to January 3, 1940, and January 14, to February 4, 1940, computed on basis of 2 and 1 discharge measurements and weather records and records for Gunnison at Grand Junction, and are fair.

Diversions for irrigation above station.

BUZZARD CREEK NEAR HEIBERGER, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 13 (Revised), T. 9 S., R. 93 W., 1.1 miles downstream from Hightower ranger station and 3 miles east of Heiberger.

Drainage Area—76.5 square miles.

Records Available—April 29, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 720 second feet, April 30, 1938. Gage height 4.45 feet.

Maximum Discharge—Year 1939; 359 second feet, May 5, 1939. Gage height 3.44 feet.

Maximum Discharge—Year 1940; 320 second feet, May 4, 1940. Gage height 3.40 feet.

Accuracy—Records considered good except those for March 23-26, 1939, and May 13 to July 28, 1939, which are poor, and were computed on basis of 4 discharge measurements and records for station at Collbran. Those for period of ice effect December 13, 19, 20, 22, 31, 1939, were estimated.

One diversion for irrigation to West Divide Creek above station.

BUZZARD CREEK NEAR COLLRAN, COLORADO

Location—Water stage recorder in Sec. 14, T. 9 S., R. 94 W., 7 miles east of Collbran and $\frac{1}{2}$ mile above mouth of Brush Creek.

Drainage Area—139 square miles.

Records Available—August 18, 1921, to September 30, 1940.

Maximum discharge observed during period 1921-40; 1,270 second feet, May 8, 1922. Gage height 7.80 feet.

Maximum Discharge—Year 1939; 318 second feet, May 6, 1939. Gage height 3.88 feet.

Maximum Discharge—Year 1940; 345 second feet, May 7, 1940. Gage height 3.96 feet.

Accuracy—Records considered good. Those for period of ice effect December 13, 1938, to March 28, 1939, were computed on basis of 3 discharge measurements and weather records; those for October 1, 30-31, November 1, 2, 7-12, 1938, computed on basis of records for station near Heiberger. Those estimated for period of ice effect December 27-30, 1939, and from January 7 to February 24, 1940, were computed on basis of 1 discharge measurement and weather records, and are fair.

Diversions for irrigation above station.

TAYLOR RIVER BELOW TAYLOR PARK RESERVOIR, COLORADO

Location—Water stage recorder in Sec. 24, T. 14 S., R. 83 W., just below highway bridge and 1,000 feet below Taylor Park Dam.

Drainage Area—155 square miles.

Records Available—October 1, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 792 second feet, June 1, 1939. Gage height 3.44 feet.

Maximum Discharge—Year 1939; 814 second feet, July 22, 1939. Gage height 3.48 feet. Discharge of natural flow over spillway.

Maximum Discharge—Year 1940; 682 second feet, July 22, 1940. Gage height 3.31 feet.

Accuracy—Records considered good. Flow controlled by needle valve.

TAYLOR RIVER AT ALMONT, COLORADO

Location—Water stage recorder in Sec. 22, T. 51 N., R. 1 E., at highway bridge at Almont, 800 feet above junction with East River.

Drainage Area—440 square miles. Zero of gage is 8,011.98 feet above mean sea level.

Records Available—July 27, 1910, to September 30, 1940.

Maximum discharge observed during period 1910-40; 3,760 second feet, June 9, 1920. Gage height 5.00 feet.

Maximum Discharge—Year 1939; 1,180 second feet, June 1, 1939. Gage height 3.35 feet.

Maximum Discharge—Year 1940; 856 second feet, October 3, 1940. Gage height 2.97 feet.

Accuracy—Records considered good except those for period of ice effect, November 25 to December 3, December 13, 1938, to March 8, 1939, March 12, 18, and December 13-18, 1939, December 21, 1939, to March 9, 1940, March 14-16, 1940, which were computed on basis of 2 discharge measurements and weather records. Taylor Park Reservoir 24 miles above station (capacity 106,000 acre-feet), controls flow.

Diversions for irrigation above station.

EAST RIVER AT ALMONT, COLORADO

Location—Water stage recorder in Sec. 22, T. 51 N., R. 1 E., 400 feet above mouth at Almont.

Drainage Area—295 square miles. Zero of gage is 8,009.51 feet above mean sea level.

Records Available—April to October, 1905; July, 1910, to April, 1922; October 1934 to September 30, 1940.

Maximum discharge observed during period 1905, 1910-22, 1934-40, about 6,500 second feet, June 15, 1921. Gage height 6.6 feet, former site and datum.

Maximum Discharge—Year 1939; 1,590 second feet, May 23, 1939. Gage height 3.92 feet.

Maximum Discharge—Year 1940; 1,220 second feet, May 11, 1940. Gage height 3.56 feet.

Accuracy—Records considered excellent except those for ice periods, November 23 to December 3, 1938, December 14 to March 12, 1939, and for November 17-24, December 12 to February 29, 1940, which were computed on basis of 2 discharge measurements, gage heights and weather records, and are fair.

Diversions for irrigation above station.

TOMICHI CREEK AT SARGENTS, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 21, T. 48 N., R. 5 E., $\frac{3}{4}$ mile south of Sargents. Marshall Creek enters $\frac{1}{2}$ mile upstream. Station maintained from 1917-22 at site 1,000 feet upstream at different datum.

Drainage Area—155 square miles.

Records Available—May, 1917, to September, 1922; April, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 291 second feet, May 10, 1939. Gage height 1.89 feet.

Maximum Discharge—Year 1939; 291 second feet, May 10, 1939. Gage height 1.89 feet.

Maximum Discharge—Year 1940; 167 second feet, May 21, 1940. Gage height 1.42 feet.

Accuracy—Records considered good, except those for periods of ice effect, November 7, 1938, to April 21, 1939, and from

November 16, 1939, to April 3, 1940, which were computed on basis of 5 and 4 discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

TOMICHI CREEK AT GUNNISON, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 11, T. 49 N., R. 1 W., $\frac{1}{2}$ mile above mouth and 1 mile south of Gunnison, on road to airport.

Drainage Area—1,020 square miles.

Records Available—April 20, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 1,420 second feet, March 24, 1939. Gage height 2.93 feet.

Maximum Discharge—Year 1939; 1,530 second feet, March 24, 1939. Gage height 2.93 feet.

Maximum Discharge—Year 1940; 326 second feet, March 27, 1940. Gage height 1.02 feet.

Accuracy—Records considered fair except for ice effect periods, November 21, 1938, to March 15, 1939, and December 27-30, 1939, January 13 to February 2, 1940, computed on basis of discharge measurements and weather records.

Diversions for irrigation above station.

QUARTZ CREEK NEAR OHIO, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 27, T. 50 N., R. 3 E., 75 feet above highway bridge and 1 mile south of Ohio. Willow Creek enters $\frac{1}{2}$ mile upstream.

Drainage Area—101 square miles.

Records Available—April 29, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-1940; 572 second feet, May 30, 1938. Gage height 2.71 feet.

Maximum Discharge—Year 1939; 291 second feet, May 22, 1939. Gage height 1.99 feet.

Maximum Discharge—Year 1940; 149 second feet, May 16, 1940. Gage height 1.54 feet.

Accuracy—Records considered good except for periods of ice effect from November 5-11, 1938, and from November 15, 1939, to February 29, 1940, March 13-24, computed on basis of 3 discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

CEBOLLA CREEK AT POWDERHORN, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 29, T. 47 N., R. 2 W., 250 feet below mouth of Powderhorn Creek, $\frac{1}{2}$ mile north of Powderhorn.

Drainage Area—334 square miles.

Records Available—April 21, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 1,060 second feet, May 29, 1938. Gage height 2.40 feet.

Maximum Discharge—Year 1939; 481 second feet, April 23, 1939. Gage height 1.68 feet.

Maximum Discharge—Year 1940; 229 second feet, May 12, 1940. Gage height 1.22 feet.

Accuracy—Records considered good except for periods of ice effect from November 15, 16, 1938, March 16 to April 19, 1939, and from November 14 to April 2, 1940, computed on basis of 1 and 4 discharge measurements and weather records, and are fair. Period September 18-20, 1940, computed on basis of records of Tomichi Creek at Sargents.

Diversions for irrigation above station.

LAKE FORK RIVER AT GATEVIEW, COLORADO

Location—Water stage recorder in Sec. 29, T. 47 N., R. 3 W., at Carr ranch (old Gateview Post Office), $\frac{1}{4}$ mile above Indian Creek and approximately 15 miles upstream from mouth.

Drainage Area—324 square miles. Zero of gage is 7,833.02 feet above mean sea level.

Records Available—April 24, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 2,620 second feet, June 21, 1938. Gage height 4.00 feet (5.00 feet present datum).

Maximum Discharge—Year 1939; 1,110 second feet, June 5, 1939. Gage height 2.72 feet.

Maximum Discharge—Year 1940; 1,330 second feet, June 2, 1940. Gage height 2.91 feet.

Accuracy—Records considered excellent. Records for period missing gage heights October 9-14, 1938, computed on basis of records for Tomichi Creek at Gunnison, and during ice effect periods November 14-30, and March 16-31, 1939, on basis of 1 discharge measurement, and November 17 to March 29, 1940, on basis of 4 discharge measurements and weather records.

Diversions for irrigation above station.

GUNNISON RIVER AT IOLA, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 28, T. 49 N., R. 2 W., 1,000 feet upstream from highway bridge, 300 feet northeast of Iola. Station maintained 1900 to 1903, 1,000 feet downstream at different datum. Records comparable.

Drainage Area—2,490 square miles.

Records Available—1900-03; April 20, 1938, to September 30, 1940.

Maximum Discharge observed during period 1938-40; 5,750 second feet, June 5, 1938. Gage height 4.37 feet.

Maximum Discharge—Year 1939; 1,110 second feet, June 5, 1939. Gage height 2.72 feet.

Maximum Discharge—Year 1940; 1,650 second feet, May 17, 1940. Gage height 2.15 feet.

Accuracy—Records considered good, except for period ice effect from December 19, 1938, to March 26, 1939, and December 15 to March 24, 1940, computed on basis of 3 discharge measurements, weather records and record for East and Taylor Rivers at Almont, and are fair.

Diversions for storage and irrigation above station.

NORTH FORK OF GUNNISON RIVER NEAR SOMERSET, COLORADO

Location—Water stage recorder in Sec. 10, T. 13 S., R. 90 W., 2 miles east of Somerset.

Drainage Area—521 square miles.

Records Available—March 30, 1934, to September 30, 1940.

Maximum discharge observed during period 1934-40; 5,360 second feet, April 16, 1938. Gage height 5.62 feet.

Maximum Discharge—Year 1939; 2,690 second feet, May 5, 1939. Gage height 4.17 feet.

Maximum Discharge—Year 1940; 2,790 second feet, May 12, 1940. Gage height 4.24 feet.

Accuracy—Records considered excellent, except for periods of ice effect, November 8-11, 14-16, November 24, 1938, to March 7, 1939, and December 27-30, and January 8-26, 1940, which were computed on basis of 1 discharge measurement, gage heights, weather records, and comparison with Uncompahgre River at Delta, and are fair.

Diversions for irrigation above station.

EAST MUDDY CREEK NEAR BARDINE, COLORADO

Location—Water stage recorder in Sec. 17, T. 12 S., R. 89 W., $1\frac{1}{4}$ mile below Spring Creek and $6\frac{1}{2}$ miles above Bardine.

Drainage Area—136 square miles.

Records Available—May 18, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40; 1,330 second feet, April 30, 1938. Gage height 2.88 feet.

Maximum Discharge—Year 1939; 624 second feet, May 5, 1939. Gage height 2.13 feet.

Maximum Discharge—Year 1940; 720 second feet, May 9, 1940. Gage height 2.25 feet.

Accuracy—Records considered good above 10 second feet. Discharge for October 16-18, 21-23, 25, 31, November 4-9, 1938, and March 13 to April 20, 1939, computed, as were those for December 8-31, 1939, and May 1-25, 1940, on basis of 2 and 1 discharge measurement, weather records, and records for North Fork Gunnison near Somerset, and are fair.

Diversion for irrigation above station.

GUNNISON RIVER NEAR GRAND JUNCTION, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 35, T. 1 S., R. 1 W., Ute Meridian, $\frac{1}{2}$ mile downstream from Redlands Power Diversion Dam, and 2 miles above mouth.

Drainage Area—8,020 square miles.

Records Available—May, 1897, to September, 1899 (at site near mouth); April, 1917, to September, 1930; January, 1934, to September 30, 1940.

Maximum discharge observed during period 1917-30, 1933-40; 35,700 second feet, May 23, 1920. Gage height 14.95 feet.

Maximum Discharge—Year 1939; 8,260 second feet, May 6, 1939. (Combined flow river and canal.)

Maximum Discharge—Year 1940; 8,390 second feet, May 13, 1940. (Combined flow river and canal.)

Accuracy—Records considered excellent above 1,000 second feet; those for March 1 to March 9, 1939, and December 27-29, January 18-31, 1940, computed on basis of gage heights, 1 discharge measurement, weather records, and comparison Colorado River at Cameo, and are fair.

Diversions for irrigation above station. Flows recorded are combination of river discharge and power canal diversions.

LEROUX CREEK NEAR CEDAREdge, COLORADO

Location—Water stage recorder in Sec. 16, T. 13 S., R. 93 W., 200 feet upstream from headgate of Overland Ditch and 7.2 miles northeast of Cedaredge.

Drainage Area—43.0 square miles.

Records Available—October, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 1,120 second feet, May 28, 1938. Gage height 5.01 feet.

Maximum Discharge—Year 1939; 599 second feet, May 10, 1939. Gage height 4.00 feet.

Maximum Discharge—Year 1940; 825 second feet, May 9, 1940. Gage height 4.48 feet.

Accuracy—Records considered good, except for periods of ice effect, November 7-9, 13-16, 18, and November 24-26, 1938,

which were computed on basis weather records, and records for North Fork Gunnison, and are fair. Estimated periods November 26-30, 1939, March 1-25, 1940, are fair.

One small diversion and several small reservoirs above station.

SURFACE CREEK ABOVE CEDAREEDGE, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 12, T. 12 S., R. 94 W., $\frac{1}{2}$ mile east of road at Buzzard Ranch, 1 mile below mouth of Caesar Creek, and 8 $\frac{1}{2}$ miles northeast of Cedaredge.

Drainage Area—28.5 square miles.

Records Available—June 20, 1939, to September 30, 1940.

Maximum discharge observed during period 1939-40; 293 second feet, May 6, 1940. Gage height 2.66 feet.

Maximum Discharge—Period 1939; 73 second feet, July 1, 1939. Gage height 1.78 feet.

Maximum Discharge—Year 1940; 293 second feet, May 6, 1940. Gage height 2.66 feet.

Accuracy—Records considered excellent, except for periods of missing gage heights October 16-31, 1939, and April 1-11, 1940, which were computed on basis of weather records and records for station at Cedaredge.

Diversions for storage above station.

SURFACE CREEK AT CEDAREEDGE, COLORADO

Location—Water stage recorder in Sec. 20, T. 13 S., R. 94 W., at Cedaredge on 32-ft. weir.

Drainage Area—43 square miles.

Records Available—May 16, 1917, to September 30, 1940.

Maximum discharge observed during period 1917-40; 715 second feet, May 24, 1920. Gage height 1.95 feet.

Maximum Discharge—Year 1939; 120 second feet, April 30, 1939. Gage height 1.04 feet.

Maximum Discharge—Year 1940; 224 second feet, April 26, 1940. Gage height 1.34 feet.

Accuracy—Records considered good except those for periods of missing gage heights and of ice effect October 23-28, November 7-30, 1938, April 1-4, 1939, and from December 19, 1939, to March 4, 1940, which are estimated on basis of 3 and 2 discharge measurements and weather records, and are fair.

Diversions for storage and irrigation above station. Flow regulated by numerous reservoirs. Water brought into this drainage basin from adjacent streams.

UNCOMPAHGRE RIVER AT COLONA, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 17, T. 47 N., R. 8 W., $\frac{1}{4}$ mile east of Colona at county bridge.

Drainage Area—437 square miles.

Records Available—April, 1917, to September 30, 1940, April, 1917, to November, 1934, at site 3 miles upstream. Records practically equivalent.

Maximum discharge observed during period 1917-40; 4,080 second feet, June 13-14, 1921.

Maximum Discharge—Year 1939; 1,060 second feet, June 5, 1939. Gage height 3.65 feet.

Maximum Discharge—Year 1940; 1,850 second feet, June 1, 1940. Gage height 3.08 feet.

Accuracy—Records considered good except those for periods of ice effect, December 15-20, December 25, 1938, to January 20, January 26-30, February 3-24, 1939, and December 20-27, 30, 31, January 17-31, 1940, February 13-15, 18-22, computed on basis of 7 and 2 discharge measurements, weather records, and by comparison with records for the station on Uncompahgre River at Delta, and are fair.

Diversions for irrigation above station.

UNCOMPAHGRE RIVER AT DELTA, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 13, T. 15 S., R. 96 W., near bridge on highway 50 on west edge of Delta, and $1\frac{1}{4}$ miles above mouth.

Drainage Area—11,000 square miles.

Records Available—September 1, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 1,980 second feet, September 30, 1940. Gage height 4.25 feet.

Maximum Discharge—Year 1939; 1,080 second feet, October 8, 1939. Gage height 3.24 feet.

Maximum Discharge—Year 1940; 1,980 second feet, September 30, 1940. Gage height 4.25 feet.

Accuracy—Records considered excellent.

Diversions for irrigation above station.

KANNAH CREEK NEAR WHITEWATER, COLORADO

Location—Water stage recorder in Sec. 34, T. 12 S., R. 97 W., 17 miles east of Whitewater and $\frac{1}{4}$ mile downstream from Grand Junction Water Works intake, concrete control. Prior to October 14, 1935, station located 300 feet upstream.

Drainage Area—55 square miles.

Records Available—October 15, 1917, to September 30, 1921; August 17, 1922, to September 30, 1938. Flow diverted by intake

not included in record since 1930. Maximum discharges only are for combined flow of stream and diversion.

Maximum discharge observed during period 1917-21, 1922-40; 1,630 second feet, June 6, 1921.

Maximum Discharge—Year 1939; 440 second feet, May 10, 1939. Gage height 1.75 feet.

Maximum Discharge—Year 1940; 691 second feet, May 13, 1940. Gage height 2.32 feet.

Accuracy—Records considered good. Periods of ice effect November 7-9, November 13, 1938, to March 18, 1939, computed on basis of 3 discharge measurements, weather records, and those for period of ice effect November 16-25, December 2-6, 13-17, December 28, 1939, to January 10, 1940, January 12-28, February 6, 8, 9, 13, 17, 18, and March 7, 14, 15, computed on basis of observer's notes, weather records and comparison North Fork Gunnison River near Somerset, and are fair.

Diversions for storage and domestic use above station.

ROUBIDEAU CREEK NEAR DELTA, COLORADO

Location—Water stage recorder in Sec. 7, T. 51 N., R. 11 W., 600 feet above mouth of Buttermilk Creek, and $5\frac{1}{2}$ miles west of Delta.

Drainage Area—165 square miles.

Records Available—March 28, 1939, to September 30, 1940.

Maximum discharge observed during period 1939-40; 640 second feet, May 11, 1940. Gage height 3.24 feet.

Maximum Discharge—Year 1939; 563 second feet, May 1, 1939. Gage height 3.02 feet.

Maximum Discharge—Year 1940; 640 second feet, May 11, 1940. Gage height 3.24 feet.

Accuracy—Records considered good except for period of ice effect, January 11, 1940, to February 5, computed on basis of 3 discharge measurements and weather records, and are fair.

ROUBIDEAU CREEK AT MOUTH NEAR DELTA, COLORADO

Location—Water stage recorder in Sec. 19, T. 15 S., R. 96 W., $\frac{1}{2}$ mile above mouth and 5 miles west of Delta. Buttermilk Creek enters two miles upstream.

Drainage Area—245 square miles.

Records Available—March 23, 1939, to September 30, 1940.

Maximum discharge observed during period 1939-40; 923 second feet, May 17, 1940. Gage height 4.18 feet.

Maximum Discharge—Year 1939; 802 second feet, May 1, 1939. Gage height 3.84 feet.

Maximum Discharge—Year 1940; 923 second feet, May 17, 1940. Gage height 4.18 feet.

Accuracy—Records considered good except for ice effect period, January 11-23, 1940, computed on basis of 1 discharge measurement, weather records, and record for Uncompahgre River at Delta.

DOLORES RIVER AT DOLORES, COLORADO

Location—Water stage recorder in Sec. 9, T. 37 N., R. 15 W., in Dolores, 200 feet upstream from highway bridge and $\frac{1}{4}$ mile upstream from Lost Canon Creek.

Drainage Area—508 square miles. Altitude, 6,954 feet above mean sea level.

Records Available—June, 1895, to October, 1903; November, 1910, to November, 1912; April, 1922, to September 30, 1940. Prior to December 6, 1912, station maintained just below mouth of Lost Canon Creek.

Maximum discharge observed during period 1895-1903, 1910-1912, 1922-1940; 10,000 second feet, October 5, 1911. Gage height 10.20 feet, former site and datum.

Maximum Discharge—Year 1939; 1,810 second feet, May 6, 1939. Gage height 4.95 feet.

Maximum Discharge—Year 1940; 2,130 second feet, May 14, 1940. Gage height 5.27 feet.

Accuracy—Records considered good, except those for periods of ice effect, November 24, 1938, to March 22, 1939, computed on basis of 4 discharge measurements and records for Animas at Durango, and those for ice effect period December 14, 1939, to March 3, 1940, computed on basis of 4 discharge measurements, weather records and reports of storage by Commissioner.

Diversions for irrigation above station.

DOLORES RIVER NEAR McPHEE, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 12, T. 38 N., R. 16 W., 0.8 mile below the mouth of Beaver Creek, and $4\frac{1}{2}$ miles northwest of McPhee.

Drainage Area—803 square miles. Zero of gage is 6,666.45 feet above mean sea level.

Records Available—October 1, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 1,900 second feet, March 25, 1939. Gage height 3.82 feet.

Maximum Discharge—Year 1939; 1,510 second feet, May 6, 1939. Gage height 3.43 feet.

Maximum Discharge—Year 1940; 1,880 second feet, May 14, 1940. Gage height 3.85 feet.

Accuracy—Records considered good except for period of missing gage heights October 1-6, computed on basis of 1 discharge measurement and daily observations, and periods of ice effect December 5, 6, December 26, 1938, to March 19, 1939, and from December 13 to February 4, 1940, computed on basis of 3 and 4 discharge measurements, weather records and records for Dolores River at Dolores, and are fair.

Diversions for irrigation above station, and three small diversions below station.

Montezuma Irrigation District diverts water from basin for irrigation and storage just below station at Dolores.

DOLORES RIVER AT GATEWAY, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 15, T. 51 N., R. 19 W., 0.3 miles southwest of Gateway, 0.3 mile downstream from mouth of West Creek, and 8 miles upstream from Colorado-Utah State Line.

Drainage Area—4,350 square miles. Zero of gage is 4,547.44 feet above mean sea level.

Records Available—March, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 13,000 second feet, April 25, 1938. Gage height 11.65 feet.

Maximum Discharge—Year 1939; 4,000 second feet, April 5, 1939. Gage height 6.46 feet.

Maximum Discharge—Year 1940; 4,590 second feet, April 22, 1940. Gage height 6.75 second feet.

Accuracy—Records considered fair except for period January 9-11, 15-17, March 5-10, 1939, January 7-12, 1940, February 2, 3, 5-9, 11, 12, computed on basis of weather records and record for White at Watson and Uncompahgre River at Delta.

Diversions for irrigation above and below station.

Discharge of Colorado River Near Grand Lake, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| 1.... | 31 | 27 | 21 | 17 | 18 | 18 | 35 | 287 | 510 | 71 | 9.4 | 24 |
| 2.... | 30 | 28 | 20 | 17 | 18 | 18 | 41 | 326 | 401 | 66 | 7.6 | 23 |
| 3.... | 31 | 27 | 20 | 17 | 18 | 18 | 51 | 343 | 364 | 61 | 5.4 | 20 |
| 4.... | 29 | 26 | 20 | 18 | 17 | 18 | 53 | 287 | 441 | 59 | 6.2 | 18 |
| 5.... | 31 | 27 | 20 | 17 | 17 | 18 | 62 | 297 | 453 | 55 | 5.0 | 16 |
| 6.... | 34 | 28 | 20 | 17 | 17 | 17 | 56 | 340 | 453 | 51 | 5.6 | 20 |
| 7.... | 34 | 27 | 19 | 17 | 17 | 17 | 50 | 275 | 398 | 45 | 2.4 | 20 |
| 8.... | 35 | 28 | 19 | 17 | 17 | 17 | 54 | 238 | 313 | 44 | 3.7 | 24 |
| 9.... | 38 | 28 | 18 | 18 | 17 | 17 | 61 | 253 | 275 | 41 | 3.0 | 23 |
| 10.... | 38 | 28 | 18 | 18 | 17 | 17 | 58 | 306 | 256 | 38 | 2.3 | 20 |
| 11.... | 36 | 29 | 18 | 17 | 17 | 18 | 50 | 306 | 256 | 34 | 2.0 | 21 |
| 12.... | 33 | 27 | 18 | 17 | 17 | 18 | 55 | 287 | 238 | 33 | 2.2 | 22 |
| 13.... | 31 | 24 | 18 | 17 | 16 | 18 | 60 | 263 | 247 | 30 | 2.2 | 22 |
| 14.... | 32 | 22 | 17 | 17 | 16 | 18 | 68 | 275 | 253 | 27 | 2.2 | 22 |
| 15.... | 33 | 21 | 17 | 17 | 16 | 18 | 68 | 316 | 269 | 22 | 2.0 | 21 |
| 16.... | 33 | 21 | 17 | 17 | 16 | 18 | 66 | 367 | 253 | 2.4 | 2.1 | 2.2 |
| 17.... | 37 | 22 | 17 | 17 | 16 | 19 | 61 | 330 | 236 | 23 | 1.9 | 2.3 |
| 18.... | 40 | 23 | 17 | 18 | 16 | 19 | 56 | 340 | 211 | 20 | 2.0 | 2.2 |
| 19.... | 34 | 23 | 18 | 18 | 16 | 19 | 62 | 394 | 177 | 20 | 2.0 | 2.2 |
| 20.... | 30 | 22 | 18 | 18 | 16 | 20 | 68 | 425 | 156 | 18 | 2.0 | 2.2 |
| 21.... | 31 | 21 | 18 | 18 | 16 | 21 | 82 | 418 | 154 | 16 | 1.8 | 2.1 |
| 22.... | 31 | 22 | 18 | 18 | 16 | 23 | 104 | 432 | 136 | 1.4 | 2.3 | 2.1 |
| 23.... | 30 | 22 | 18 | 19 | 17 | 24 | 134 | 439 | 114 | 1.1 | 2.5 | 2.2 |
| 24.... | 29 | 22 | 18 | 18 | 17 | 26 | 116 | 408 | 107 | 7.6 | 1.8 | 3.6 |
| 25.... | 28 | 23 | 18 | 18 | 17 | 27 | 100 | 381 | 107 | 7.6 | 2.1 | 3.6 |
| 26.... | 27 | 21 | 17 | 18 | 17 | 27 | 114 | 326 | 97 | 6.2 | 2.0 | 3.2 |
| 27.... | 27 | 21 | 18 | 18 | 17 | 27 | 152 | 278 | 88 | 5.2 | 2.2 | 3.2 |
| 28.... | 27 | 20 | 18 | 18 | 17 | 28 | 227 | 294 | 84 | 5.4 | 2.5 | 3.1 |
| 29.... | 27 | 20 | 18 | 18 | .... | 30 | 294 | 326 | 77 | 4.8 | 2.7 | 3.4 |
| 30.... | 26 | 21 | 18 | 18 | .... | 32 | 287 | 388 | 74 | 5.4 | 2.4 | 3.1 |
| 31.... | 26 | .... | 17 | 18 | .... | 32 | .... | 435 | .... | 6.0 | 2.3 | .... |
| Total | 979 | 719 | 566 | 545 | 469 | 657 | 2745 | 10380 | 7158 | 871.2 | 605.2 | 723 |
| Mean. | 31.6 | 24.0 | 18.3 | 17.6 | 16.8 | 21.2 | 91.5 | 335 | 239 | 28.1 | 19.5 | 24.1 |
| Max.. | 40 | 29 | 21 | 19 | 18 | 32 | 294 | 439 | 510 | 71 | 3.7 | 3.6 |
| Min.. | 26 | 20 | 17 | 17 | 16 | 17 | 35 | 238 | 74 | 4.8 | 5.0 | 16 |
| Acre-ft. | 1940 | 1430 | 1120 | 1080 | 930 | 1300 | 5440 | 20590 | 14200 | 1730 | 1200 | 1430 |

Total run-off for water year 1938-39=52,390 acre-feet.

Discharge of Colorado River Near Grand Lake, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 28 | 28 | 15 | 10 | 12 | 13 | 25 | 47 | 331 | 78 | 16 | 39 |
| 2.... | 28 | 26 | 16 | 11 | 12 | 14 | 24 | 58 | 361 | 103 | 1.4 | 38 |
| 3.... | 27 | 24 | 16 | 11 | 12 | 14 | 29 | 85 | 364 | 82 | 1.3 | 35 |
| 4.... | 31 | 22 | 14 | 11 | 12 | 14 | 28 | 121 | 328 | 70 | 1.2 | 40 |
| 5.... | 30 | 22 | 13 | 11 | 12 | 13 | 29 | 152 | 325 | 61 | 1.2 | 35 |
| 6.... | 29 | 24 | 13 | 12 | 12 | 13 | 25 | 158 | 325 | 67 | 1.2 | 31 |
| 7.... | 28 | 23 | 14 | 11 | 12 | 13 | 23 | 172 | 256 | 54 | 1.2 | 31 |
| 8.... | 29 | 21 | 14 | 11 | 12 | 14 | 26 | 181 | 229 | 49 | 1.2 | 30 |
| 9.... | 36 | 21 | 14 | 12 | 12 | 14 | 18 | 181 | 192 | 44 | 1.2 | 37 |
| 10.... | 38 | 19 | 13 | 12 | 12 | 14 | 20 | 210 | 170 | 43 | 1.6 | 46 |
| 11.... | 40 | 19 | 12 | 11 | 12 | 14 | 19 | 265 | 170 | 37 | 2.1 | 40 |
| 12.... | 31 | 18 | 12 | 12 | 12 | 13 | 26 | 298 | 185 | 32 | 2.0 | 36 |
| 13.... | 30 | 18 | 12 | 12 | 12 | 13 | 22 | 316 | 192 | 25 | 2.0 | 37 |
| 14.... | 29 | 17 | 12 | 12 | 11 | 13 | 31 | 232 | 220 | 23 | 2.0 | 40 |
| 15.... | 29 | 17 | 12 | 12 | 13 | 13 | 46 | 204 | 241 | 21 | 1.9 | 39 |
| 16.... | 31 | 17 | 12 | 12 | 12 | 14 | 49 | 259 | 220 | 20 | 1.9 | 34 |
| 17.... | 32 | 17 | 11 | 11 | 11 | 16 | 50 | 250 | 217 | 21 | 2.0 | 32 |
| 18.... | 29 | 16 | 11 | 12 | 11 | 16 | 58 | 204 | 197 | 36 | 1.8 | 32 |
| 19.... | 25 | 16 | 10 | 12 | 12 | 22 | 78 | 190 | 181 | 44 | 1.4 | 33 |
| 20.... | 24 | 16 | 10 | 12 | 12 | 15 | 94 | 207 | 181 | 31 | 1.6 | 32 |
| 21.... | 23 | 16 | 10 | 12 | 12 | 14 | 105 | 210 | 166 | 29 | 1.9 | 32 |
| 22.... | 22 | 16 | 10 | 12 | 12 | 18 | 107 | 176 | 160 | 28 | 1.9 | 34 |
| 23.... | 22 | 16 | 11 | 13 | 12 | 19 | 94 | 162 | 142 | 22 | 1.8 | 33 |
| 24.... | 22 | 15 | 10 | 13 | 12 | 20 | 103 | 160 | 123 | 19 | 2.6 | 31 |
| 25.... | 23 | 15 | 11 | 13 | 12 | 21 | 119 | 181 | 107 | 19 | 4.3 | 32 |
| 26.... | 23 | 15 | 10 | 12 | 13 | 19 | 121 | 202 | 101 | 17 | 5.8 | 35 |
| 27.... | 24 | 16 | 10 | 11 | 13 | 19 | 119 | 256 | 93 | 16 | 8.8 | 45 |
| 28.... | 24 | 16 | 10 | 12 | 13 | 19 | 96 | 238 | 83 | 16 | 8.0 | 42 |
| 29.... | 22 | 16 | 12 | 12 | 12 | 19 | 77 | 226 | 77 | 16 | 6.1 | 42 |
| 30.... | 22 | 15 | 10 | 12 | .... | 20 | 53 | 238 | 75 | 16 | 4.9 | 60 |
| 31.... | 24 | .... | 10 | 12 | .... | 21 | .... | 283 | .... | 18 | 4.4 | .... |
| Total | 855 | 557 | 370 | 364 | 349 | 494 | 1714 | 6122 | 6012 | 1157 | 823 | 1103 |
| Mean. | 27.6 | 18.6 | 11.9 | 11.7 | 12.0 | 15.9 | 57.1 | 197 | 200 | 37.3 | 26.5 | 36.8 |
| Max.. | 40 | 28 | 16 | 13 | 13 | 22 | 121 | 316 | 364 | 103 | 8.8 | 60 |
| Min.. | 22 | 15 | 10 | 10 | 11 | 13 | 19 | 47 | 75 | 16 | 1.2 | 30 |
| Acre-ft. | 1700 | 1100 | 734 | 722 | 692 | 980 | 3400 | 12140 | 11920 | 2290 | 1630 | 2190 |

Total run-off for water year 1939-40=39,500 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River Near Granby, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|-------|-------|------|-------|
| 1.... | 96 | 75 | 52 | 49 | 51 | 42 | 95 | 833 | 1980 | 548 | 190 | 75 |
| 2.... | 93 | 77 | 51 | 50 | 50 | 42 | 96 | 992 | 1680 | 512 | 190 | 71 |
| 3.... | 93 | 77 | 51 | 50 | 50 | 43 | 96 | 1120 | 1450 | 488 | 168 | 65 |
| 4.... | 93 | 77 | 52 | 51 | 49 | 43 | 115 | 1040 | 1560 | 476 | 157 | 61 |
| 5.... | 93 | 69 | 54 | 49 | 49 | 43 | 133 | 1030 | 1800 | 452 | 140 | 57 |
| 6.... | 96 | 52 | 54 | 50 | 49 | 43 | 115 | 1110 | 1850 | 423 | 140 | 63 |
| 7.... | 98 | 61 | 53 | 51 | 48 | 44 | 101 | 965 | 1640 | 390 | 223 | 69 |
| 8.... | 104 | 61 | 52 | 51 | 47 | 44 | 115 | 798 | 1390 | 374 | 232 | 71 |
| 9.... | 104 | 77 | 52 | 51 | 47 | 44 | 133 | 763 | 1240 | 363 | 202 | 71 |
| 10.... | 104 | 77 | 55 | 50 | 46 | 45 | 115 | 938 | 1080 | 353 | 168 | 67 |
| 11.... | 106 | 75 | 53 | 49 | 45 | 46 | 101 | 974 | 1070 | 337 | 143 | 69 |
| 12.... | 104 | 65 | 50 | 48 | 47 | 46 | 115 | 947 | 1080 | 318 | 133 | 73 |
| 13.... | 104 | 55 | 49 | 49 | 46 | 47 | 140 | 848 | 1170 | 294 | 126 | 75 |
| 14.... | 104 | 52 | 48 | 49 | 44 | 48 | 168 | 848 | 1260 | 280 | 123 | 75 |
| 15.... | 104 | 55 | 49 | 49 | 44 | 49 | 164 | 1070 | 1360 | 258 | 118 | 75 |
| 16.... | 101 | 58 | 50 | 49 | 44 | 51 | 146 | 1300 | 1390 | 249 | 115 | 73 |
| 17.... | 106 | 59 | 49 | 50 | 43 | 53 | 126 | 1220 | 1270 | 240 | 106 | 71 |
| 18.... | 109 | 60 | 49 | 51 | 43 | 56 | 118 | 1170 | 1130 | 211 | 96 | 69 |
| 19.... | 104 | 59 | 50 | 51 | 43 | 53 | 129 | 1350 | 904 | 190 | 91 | 65 |
| 20.... | 98 | 58 | 51 | 52 | 44 | 52 | 129 | 1560 | 756 | 179 | 86 | 61 |
| 21.... | 93 | 56 | 52 | 51 | 43 | 55 | 160 | 1550 | 686 | 160 | 80 | 59 |
| 22.... | 91 | 55 | 50 | 50 | 42 | 58 | 227 | 1560 | 644 | 153 | 80 | 59 |
| 23.... | 91 | 55 | 49 | 50 | 43 | 62 | 294 | 1620 | 574 | 140 | 80 | 63 |
| 24.... | 84 | 57 | 49 | 49 | 43 | 68 | 284 | 1580 | 595 | 129 | 80 | 75 |
| 25.... | 82 | 59 | 48 | 50 | 43 | 72 | 266 | 1450 | 630 | 120 | 80 | 82 |
| 26.... | 82 | 56 | 49 | 50 | 44 | 72 | 275 | 1240 | 651 | 123 | 80 | 75 |
| 27.... | 80 | 52 | 50 | 51 | 44 | 74 | 308 | 1050 | 616 | 133 | 82 | 73 |
| 28.... | 80 | 51 | 51 | 52 | 43 | 78 | 434 | 1000 | 602 | 136 | 82 | 75 |
| 29.... | 77 | 51 | 50 | 52 | .... | 82 | 637 | 1200 | 581 | 126 | 86 | 89 |
| 30.... | 75 | 52 | 50 | 53 | .... | 86 | 749 | 1620 | 567 | 146 | 89 | 96 |
| 31.... | 75 | .. | 49 | 52 | .. | 92 | .. | 1860 | .. | 183 | 73 | .. |
| Total | 2924 | 1813 | 1571 | 1559 | 1274 | 1733 | 6084 | 36606 | 33206 | 8484 | 3839 | 2122 |
| Mean. | 94.3 | 61.4 | 50.7 | 50.3 | 45.5 | 55.9 | 203 | 1180 | 1107 | 274 | 124 | 70.7 |
| Max. | 109 | 77 | 54 | 53 | 51 | 92 | 749 | 1860 | 1980 | 548 | 232 | 96 |
| Min. | 75 | 51 | 48 | 48 | 42 | 42 | 95 | 763 | 567 | 120 | 73 | 57 |
| Acre-ft. | 5800 | 3660 | 3120 | 3090 | 2530 | 3440 | 12070 | 72610 | 65860 | 16830 | 7610 | 4210 |

Total run-off for water year 1938-39=200,800 acre-feet.

Discharge of Colorado River Near Granby, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|-------|------|-------|
| 1.... | 89 | 74 | 60 | 42 | 38 | 43 | 110 | 195 | 1670 | 524 | 160 | 210 |
| 2.... | 89 | 74 | 62 | 40 | 36 | 42 | 110 | 191 | 1800 | 623 | 140 | 184 |
| 3.... | 84 | 74 | 57 | 42 | 37 | 40 | 94 | 226 | 1780 | 616 | 128 | 166 |
| 4.... | 87 | 70 | 58 | 43 | 37 | 39 | 86 | 304 | 1560 | 554 | 123 | 163 |
| 5.... | 92 | 70 | 54 | 41 | 35 | 41 | 90 | 458 | 1560 | 482 | 120 | 153 |
| 6.... | 92 | 76 | 51 | 38 | 35 | 43 | 94 | 554 | 1570 | 482 | 114 | 137 |
| 7.... | 89 | 74 | 53 | 36 | 36 | 42 | 82 | 651 | 1260 | 464 | 114 | 128 |
| 8.... | 96 | 72 | 54 | 38 | 36 | 41 | 78 | 679 | 1080 | 418 | 112 | 126 |
| 9.... | 120 | 72 | 54 | 35 | 36 | 42 | 74 | 707 | 912 | 368 | 109 | 144 |
| 10.... | 123 | 64 | 53 | 37 | 36 | 44 | 72 | 856 | 784 | 337 | 104 | 163 |
| 11.... | 120 | 57 | 50 | 35 | 35 | 44 | 70 | 1030 | 777 | 318 | 104 | 160 |
| 12.... | 114 | 55 | 47 | 33 | 34 | 40 | 70 | 1140 | 920 | 314 | 101 | 147 |
| 13.... | 109 | 55 | 46 | 33 | 32 | 37 | 80 | 1210 | 1000 | 300 | 96 | 137 |
| 14.... | 101 | 54 | 47 | 33 | 30 | 38 | 106 | 1000 | 1240 | 277 | 96 | 147 |
| 15.... | 99 | 56 | 49 | 31 | 30 | 37 | 134 | 880 | 1400 | 260 | 92 | 140 |
| 16.... | 96 | 56 | 50 | 32 | 31 | 39 | 137 | 1000 | 1320 | 251 | 89 | 126 |
| 17.... | 94 | 56 | 48 | 33 | 29 | 42 | 120 | 1100 | 1230 | 264 | 87 | 120 |
| 18.... | 80 | 54 | 46 | 30 | 30 | 44 | 134 | 1010 | 1120 | 384 | 87 | 117 |
| 19.... | 87 | 52 | 43 | 29 | 32 | 44 | 170 | 888 | 1040 | 482 | 80 | 123 |
| 20.... | 82 | 55 | 44 | 32 | 32 | 48 | 198 | 904 | 1060 | 406 | 87 | 126 |
| 21.... | 80 | 55 | 43 | 32 | 32 | 50 | 198 | 947 | 1010 | 358 | 99 | 131 |
| 22.... | 78 | 55 | 41 | 29 | 32 | 46 | 222 | 770 | 938 | 337 | 99 | 137 |
| 23.... | 74 | 55 | 41 | 30 | 35 | 47 | 210 | 686 | 864 | 300 | 92 | 137 |
| 24.... | 72 | 54 | 38 | 32 | 36 | 45 | 238 | 686 | 798 | 273 | 104 | 131 |
| 25.... | 72 | 53 | 39 | 30 | 37 | 58 | 260 | 777 | 721 | 242 | 153 | 128 |
| 26.... | 72 | 56 | 39 | 34 | 39 | 78 | 277 | 896 | 679 | 218 | 222 | 131 |
| 27.... | 74 | 56 | 38 | 34 | 40 | 70 | 291 | 1110 | 616 | 198 | 337 | 150 |
| 28.... | 74 | 55 | 35 | 35 | 40 | 65 | 282 | 1150 | 588 | 195 | 390 | 160 |
| 29.... | 74 | 54 | 37 | 37 | 42 | 62 | 273 | 1180 | 574 | 180 | 342 | 166 |
| 30.... | 72 | 53 | 40 | 35 | .. | 66 | 230 | 1260 | 536 | 177 | 286 | 195 |
| 31.... | 74 | .. | 44 | 36 | .. | 90 | .. | 1420 | .. | 170 | 242 | .. |
| Total | 2768 | 1816 | 1461 | 1081 | 1010 | 1507 | 4590 | 25865 | 32407 | 10772 | 4509 | 4383 |
| Mean. | 89.3 | 60.5 | 47.1 | 34.9 | 34.8 | 48.6 | 153 | 834 | 1080 | 347 | 145 | 146 |
| Max. | 123 | 76 | 62 | 43 | 42 | 90 | 291 | 1420 | 1800 | 623 | 390 | 210 |
| Min. | 72 | 52 | 35 | 29 | 29 | 37 | 70 | 191 | 536 | 170 | 180 | 117 |
| Acre-ft. | 5490 | 3600 | 2900 | 2140 | 2000 | 2990 | 9100 | 51300 | 64280 | 21370 | 8940 | 8690 |

Total run-off for water year 1939-40=182,800 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River Near Hot Sulphur Springs, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|------|------|-------|------|-------|--------|--------|-------|-------|-------|
| 1..... | 208 | 184 | 112 | 112 | 114 | 110 | 246 | 1630 | 3470 | 747 | 286 | 136 |
| 2..... | 208 | 184 | 108 | 114 | 110 | 110 | 277 | 1890 | 2880 | 664 | 286 | 130 |
| 3..... | 204 | 176 | 108 | 116 | 106 | 110 | 375 | 2110 | 2360 | 619 | 246 | 115 |
| 4..... | 196 | 188 | 110 | 116 | 108 | 110 | 430 | 1980 | 2480 | 598 | 237 | 109 |
| 5..... | 188 | 200 | 115 | 110 | 110 | 115 | 480 | 1970 | 2880 | 584 | 220 | 109 |
| 6..... | 196 | 176 | 110 | 112 | 112 | 115 | 415 | 2150 | 3070 | 552 | 204 | 112 |
| 7..... | 208 | 165 | 108 | 115 | 114 | 120 | 320 | 1860 | 2720 | 492 | 330 | 130 |
| 8..... | 208 | 204 | 106 | 120 | 108 | 122 | 305 | 1580 | 2290 | 462 | 345 | 136 |
| 9..... | 204 | 184 | 112 | 118 | 110 | 125 | 390 | 1550 | 2000 | 440 | 291 | 133 |
| 10..... | 204 | 216 | 115 | 114 | 108 | 125 | 365 | 1840 | 1800 | 430 | 254 | 124 |
| 11..... | 200 | 184 | 105 | 112 | 106 | 135 | 291 | 1910 | 1680 | 410 | 216 | 124 |
| 12..... | 196 | 180 | 102 | 110 | 115 | 135 | 310 | 1900 | 1660 | 390 | 200 | 130 |
| 13..... | 188 | 140 | 100 | 108 | 110 | 130 | 390 | 1770 | 1740 | 365 | 188 | 130 |
| 14..... | 184 | 115 | 98 | 108 | 110 | 130 | 435 | 1720 | 1850 | 350 | 184 | 130 |
| 15..... | 188 | 120 | 102 | 108 | 110 | 140 | 420 | 1970 | 1950 | 325 | 180 | 127 |
| 16..... | 184 | 125 | 108 | 110 | 112 | 150 | 375 | 2260 | 1970 | 315 | 172 | 124 |
| 17..... | 184 | 125 | 115 | 110 | 108 | 165 | 310 | 2190 | 1800 | 305 | 165 | 124 |
| 18..... | 188 | 130 | 108 | 112 | 104 | 155 | 277 | 2120 | 1580 | 282 | 154 | 118 |
| 19..... | 184 | 125 | 110 | 114 | 106 | 155 | 340 | 2350 | 1310 | 259 | 143 | 112 |
| 20..... | 172 | 119 | 112 | 116 | 108 | 160 | 325 | 2690 | 1100 | 246 | 130 | 106 |
| 21..... | 180 | 112 | 115 | 118 | 110 | 165 | 365 | 2670 | 1000 | 220 | 127 | 106 |
| 22..... | 200 | 108 | 115 | 114 | 112 | 175 | 516 | 2690 | 970 | 200 | 130 | 100 |
| 23..... | 184 | 104 | 112 | 110 | 114 | 190 | 712 | 2810 | 846 | 188 | 124 | 106 |
| 24..... | 180 | 100 | 112 | 108 | 116 | 205 | 656 | 2760 | 828 | 176 | 121 | 118 |
| 25..... | 176 | 105 | 110 | 106 | 112 | 215 | 598 | 2560 | 864 | 161 | 124 | 136 |
| 26..... | 184 | 102 | 106 | 105 | 112 | 210 | 598 | 2250 | 873 | 165 | 121 | 130 |
| 27..... | 180 | 104 | 108 | 110 | 112 | 215 | 688 | 1880 | 810 | 176 | 127 | 130 |
| 28..... | 184 | 108 | 108 | 110 | 112 | 230 | 960 | 1730 | 765 | 208 | 133 | 133 |
| 29..... | 180 | 110 | 110 | 112 | ..... | 245 | 1340 | 1910 | 747 | 192 | 150 | 147 |
| 30..... | 180 | 115 | 115 | 115 | ..... | 265 | 1540 | 2450 | 712 | 204 | 150 | 158 |
| 31..... | 180 | ..... | 108 | 115 | ..... | 255 | ..... | 3000 | ..... | 291 | 143 | ..... |
| Total | 5900 | 4308 | 3383 | 3478 | 3089 | 4987 | 15049 | 66150 | 51005 | 11016 | 5881 | 3723 |
| Mean. | 190 | 144 | 109 | 112 | 110 | 161 | 502 | 2134 | 1700 | 355 | 190 | 124 |
| Max... | 208 | 216 | 115 | 120 | 116 | 265 | 1540 | 3000 | 3470 | 747 | 345 | 158 |
| Min... | 172 | 100 | 98 | 105 | 104 | 110 | 246 | 1550 | 712 | 161 | 121 | 100 |
| Acre-ft. | 11700 | 8540 | 6710 | 6900 | 6130 | 9890 | 29850 | 131200 | 101200 | 21850 | 11660 | 7350 |

Total run-off for water year 1938-39=353,000 acre-feet.

Discharge of Colorado River Near Hot Sulphur Springs, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|------|-------|------|-------|-------|-------|-------|-------|-------|
| 1..... | 143 | 136 | 103 | 94 | 89 | 120 | 300 | 456 | 2440 | 680 | 233 | 268 |
| 2..... | 140 | 143 | 106 | 91 | 87 | 118 | 291 | 450 | 2640 | 846 | 208 | 241 |
| 3..... | 136 | 136 | 103 | 94 | 90 | 116 | 200 | 528 | 2620 | 855 | 200 | 220 |
| 4..... | 143 | 124 | 99 | 96 | 93 | 118 | 204 | 688 | 2220 | 810 | 188 | 229 |
| 5..... | 158 | 130 | 96 | 96 | 90 | 122 | 225 | 930 | 2250 | 696 | 184 | 216 |
| 6..... | 154 | 143 | 92 | 88 | 92 | 124 | 192 | 1070 | 2300 | 712 | 172 | 192 |
| 7..... | 150 | 140 | 95 | 82 | 92 | 124 | 192 | 1180 | 1930 | 648 | 176 | 180 |
| 8..... | 150 | 127 | 96 | 85 | 94 | 122 | 168 | 1210 | 1610 | 605 | 176 | 176 |
| 9..... | 188 | 127 | 100 | 80 | 96 | 125 | 200 | 1210 | 1340 | 522 | 172 | 186 |
| 10..... | 196 | 112 | 100 | 81 | 96 | 130 | 184 | 1420 | 1140 | 468 | 161 | 229 |
| 11..... | 188 | 103 | 98 | 78 | 97 | 135 | 168 | 1660 | 1090 | 456 | 172 | 229 |
| 12..... | 180 | 109 | 94 | 75 | 97 | 130 | 150 | 1820 | 1210 | 456 | 158 | 204 |
| 13..... | 168 | 109 | 91 | 72 | 95 | 124 | 188 | 1950 | 1300 | 420 | 140 | 196 |
| 14..... | 165 | 109 | 92 | 75 | 93 | 124 | 268 | 1690 | 1600 | 400 | 133 | 204 |
| 15..... | 158 | 109 | 94 | 73 | 90 | 128 | 370 | 1500 | 1820 | 360 | 133 | 200 |
| 16..... | 154 | 103 | 95 | 72 | 90 | 132 | 370 | 1610 | 1770 | 360 | 124 | 192 |
| 17..... | 150 | 98 | 94 | 75 | 92 | 140 | 286 | 1770 | 1630 | 395 | 124 | 184 |
| 18..... | 147 | 96 | 92 | 73 | 90 | 148 | 315 | 1720 | 1500 | 612 | 118 | 180 |
| 19..... | 143 | 95 | 88 | 69 | 90 | 152 | 410 | 1490 | 1380 | 672 | 115 | 192 |
| 20..... | 133 | 100 | 86 | 72 | 94 | 160 | 438 | 1480 | 1370 | 540 | 130 | 220 |
| 21..... | 133 | 102 | 87 | 75 | 94 | 165 | 522 | 1680 | 1420 | 468 | 150 | 208 |
| 22..... | 130 | 100 | 84 | 73 | 94 | 160 | 522 | 1430 | 1400 | 435 | 172 | 216 |
| 23..... | 127 | 98 | 83 | 71 | 94 | 160 | 504 | 1220 | 1200 | 385 | 158 | 212 |
| 24..... | 124 | 96 | 85 | 78 | 100 | 200 | 492 | 1190 | 1070 | 340 | 165 | 208 |
| 25..... | 121 | 95 | 82 | 83 | 105 | 257 | 510 | 1250 | 950 | 310 | 241 | 204 |
| 26..... | 121 | 97 | 83 | 84 | 109 | 300 | 558 | 1430 | 891 | 277 | 305 | 220 |
| 27..... | 130 | 99 | 83 | 83 | 112 | 254 | 598 | 1740 | 819 | 259 | 405 | 268 |
| 28..... | 115 | 97 | 77 | 84 | 114 | 208 | 612 | 1820 | 747 | 259 | 468 | 272 |
| 29..... | 127 | 96 | 81 | 86 | 120 | 184 | 570 | 1810 | 712 | 250 | 420 | 272 |
| 30..... | 109 | 95 | 88 | 83 | ..... | 172 | 504 | 1900 | 672 | 250 | 355 | 305 |
| 31..... | 118 | ..... | 94 | 86 | ..... | 220 | ..... | 2090 | ..... | 246 | 305 | ..... |
| Total | 4499 | 3324 | 2841 | 2507 | 2787 | 4874 | 10620 | 43392 | 45041 | 14992 | 6361 | 6523 |
| Mean. | 145 | 111 | 91.6 | 80.9 | 96.1 | 157 | 354 | 1400 | 1501 | 484 | 205 | 217 |
| Max... | 196 | 143 | 106 | 96 | 120 | 300 | 612 | 2090 | 2640 | 855 | 468 | 305 |
| Min... | 109 | 95 | 77 | 69 | 87 | 116 | 150 | 450 | 672 | 246 | 115 | 176 |
| Acre-ft. | 8920 | 6590 | 5640 | 4970 | 5530 | 9670 | 21060 | 86070 | 89340 | 29740 | 12620 | 12940 |

Total run-off for water year 1939-40=293,100 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River at Glenwood Springs, Colo., for Year Ending Sept. 30, 1933.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|
| 1.... | 1230 | 1020 | 821 | 835 | 765 | 706 | 1510 | 7140 | 11600 | 3520 | 1630 | 793 |
| 2.... | 1170 | 983 | 907 | 821 | 700 | 732 | 1460 | 7530 | 11700 | 3440 | 1640 | 793 |
| 3.... | 1170 | 1040 | 899 | 793 | 688 | 739 | 1510 | 8390 | 10300 | 3380 | 1560 | 843 |
| 4.... | 1160 | 1100 | 899 | 899 | 713 | 752 | 1800 | 8680 | 9740 | 3230 | 1520 | 828 |
| 5.... | 1160 | 1090 | 940 | 682 | 835 | 779 | 2000 | 8710 | 10500 | 3060 | 1300 | 807 |
| 6.... | 1150 | 1080 | 949 | 907 | 821 | 746 | 2250 | 9060 | 11000 | 2950 | 1130 | 821 |
| 7.... | 1130 | 793 | 907 | 915 | 700 | 739 | 2120 | 8940 | 10500 | 2810 | 1380 | 851 |
| 8.... | 1160 | 1040 | 924 | 752 | 807 | 752 | 1870 | 7690 | 9540 | 2720 | 1310 | 891 |
| 9.... | 1200 | 899 | 958 | 907 | 821 | 821 | 1740 | 7080 | 8620 | 2280 | 1400 | 949 |
| 10.... | 1240 | 1070 | 940 | 821 | 851 | 828 | 1810 | 7660 | 7720 | 2410 | 1390 | 940 |
| 11.... | 1260 | 1120 | 1100 | 867 | 713 | 821 | 1830 | 8520 | 7320 | 2300 | 1280 | 992 |
| 12.... | 1230 | 1110 | 940 | 883 | 739 | 821 | 1700 | 8740 | 7140 | 2220 | 1140 | 958 |
| 13.... | 1180 | 843 | 940 | 883 | 779 | 851 | 1600 | 8620 | 7170 | 2120 | 1040 | 983 |
| 14.... | 1170 | 765 | 700 | 891 | 765 | 915 | 1830 | 8260 | 7500 | 2020 | 1010 | 966 |
| 15.... | 1160 | 983 | 688 | 700 | 772 | 924 | 2090 | 8740 | 7910 | 1880 | 1020 | 983 |
| 16.... | 1130 | 835 | 821 | 746 | 915 | 924 | 2190 | 9900 | 7720 | 1770 | 1000 | 940 |
| 17.... | 1040 | 932 | 940 | 800 | 752 | 932 | 2060 | 10800 | 7410 | 1700 | 1040 | 807 |
| 18.... | 1050 | 974 | 875 | 851 | 520 | 940 | 1880 | 10400 | 6840 | 1670 | 1020 | 907 |
| 19.... | 1070 | 958 | 793 | 821 | 793 | 940 | 1740 | 10200 | 6030 | 1570 | 974 | 932 |
| 20.... | 1180 | 958 | 843 | 843 | 851 | 966 | 1730 | 11400 | 5170 | 1490 | 899 | 765 |
| 21.... | 1080 | 891 | 851 | 867 | 525 | 1170 | 1770 | 12300 | 4640 | 1430 | 899 | 720 |
| 22.... | 1030 | 875 | 915 | 899 | 664 | 1170 | 2160 | 12500 | 4300 | 1400 | 851 | 807 |
| 23.... | 1000 | 851 | 875 | 867 | 530 | 1200 | 2990 | 12800 | 4150 | 1210 | 793 | 700 |
| 24.... | 899 | 670 | 821 | 688 | 580 | 1480 | 3700 | 12700 | 4120 | 1330 | 793 | 814 |
| 25.... | 1020 | 658 | 779 | 676 | 779 | 1580 | 3620 | 11700 | 4190 | 1210 | 835 | 807 |
| 26.... | 992 | 752 | 732 | 688 | 800 | 1770 | 3500 | 10400 | 3980 | 1180 | 793 | 843 |
| 27.... | 1010 | 726 | 746 | 726 | 752 | 1960 | 3500 | 8840 | 4080 | 1160 | 758 | 821 |
| 28.... | 1170 | 726 | 732 | 752 | 628 | 2080 | 4170 | 8140 | 3880 | 1180 | 779 | 949 |
| 29.... | 958 | 694 | 779 | 915 | .... | 1880 | 5270 | 8460 | 3720 | 1240 | 843 | 899 |
| 30.... | 1040 | 752 | 851 | 821 | .... | 1640 | 6540 | 9350 | 3660 | 1500 | 758 | 867 |
| 31.... | 974 | .... | 875 | 915 | .... | 1540 | .... | 10400 | .... | 1570 | 800 | .... |
| Total | 34443 | 27188 | 26740 | 25431 | 20558 | 34098 | 74020 | 294050 | 212160 | 62950 | 33585 | 25976 |
| Mean. | 1111 | 906 | 843 | 820 | 734 | 1100 | 2467 | 9485 | 7072 | 2031 | 1083 | 866 |
| Max.. | 1260 | 1120 | 1100 | 915 | 915 | 2080 | 6540 | 12800 | 11700 | 3520 | 1640 | 992 |
| Min.. | 899 | 658 | 688 | 676 | 520 | 706 | 1460 | 7080 | 3660 | 1160 | 758 | 700 |
| Ac-ft. | 68320 | 53930 | 53040 | 50440 | 40780 | 67630 | 146800 | 583200 | 420800 | 124900 | 66610 | 51520 |

Total run-off for water year 1933-39=1,728,000 acre-feet.

Discharge of Colorado River at Glenwood Springs, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|-------|
| 1.... | 821 | 780 | 618 | 673 | 598 | 821 | 983 | 2090 | 9640 | 2990 | 958 | 1320 |
| 2.... | 932 | 802 | 673 | 640 | 616 | 799 | 1130 | 1960 | 10300 | 3060 | 1000 | 1210 |
| 3.... | 907 | 765 | 638 | 676 | 700 | 760 | 1280 | 2160 | 10600 | 3310 | 1000 | 1020 |
| 4.... | 859 | 787 | 672 | 664 | 646 | 741 | 1310 | 2670 | 9960 | 3380 | 932 | 958 |
| 5.... | 875 | 951 | 730 | 616 | 652 | 713 | 1070 | 3860 | 9000 | 3360 | 859 | 924 |
| 6.... | 932 | 805 | 662 | 628 | 628 | 592 | 1050 | 3820 | 8490 | 3030 | 828 | 932 |
| 7.... | 915 | 831 | 620 | 592 | 652 | 709 | 1160 | 4190 | 7820 | 2790 | 786 | 940 |
| 8.... | 867 | 864 | 631 | 552 | 652 | 667 | 1110 | 4410 | 6720 | 2670 | 800 | 895 |
| 9.... | 1020 | 862 | 632 | 574 | 604 | 702 | 1000 | 4570 | 5970 | 2430 | 859 | 802 |
| 10.... | 1000 | 841 | 715 | 634 | 592 | 759 | 1000 | 4980 | 5220 | 2250 | 664 | 912 |
| 11.... | 949 | 675 | 638 | 652 | 598 | 750 | 966 | 5820 | 4640 | 2090 | 758 | 710 |
| 12.... | 1030 | 910 | 709 | 574 | 616 | 741 | 924 | 6840 | 4670 | 1910 | 843 | 996 |
| 13.... | 1090 | 750 | 685 | 658 | 547 | 764 | 835 | 7750 | 5120 | 1830 | 746 | 1060 |
| 14.... | 1050 | 812 | 580 | 558 | 580 | 561 | 867 | 7910 | 5730 | 1740 | 758 | 945 |
| 15.... | 1050 | 766 | 598 | 542 | 569 | 611 | 983 | 7140 | 6300 | 1670 | 835 | 975 |
| 16.... | 901 | 766 | 520 | 449 | 670 | 523 | 1200 | 7020 | 6270 | 1620 | 700 | 935 |
| 17.... | 903 | 736 | 663 | 506 | 545 | 737 | 1400 | 7500 | 6060 | 1580 | 634 | 932 |
| 18.... | 911 | 654 | 680 | 624 | 547 | 691 | 1430 | 7350 | 6030 | 1700 | 652 | 936 |
| 19.... | 796 | 627 | 508 | 436 | 580 | 759 | 1400 | 6750 | 5760 | 2060 | 765 | 943 |
| 20.... | 892 | 636 | 448 | 488 | 604 | 645 | 1420 | 6390 | 5450 | 2400 | 908 | 994 |
| 21.... | 832 | 574 | 514 | 552 | 564 | 719 | 1830 | 6270 | 5650 | 2090 | 542 | 1150 |
| 22.... | 1040 | 664 | 554 | 505 | 592 | 763 | 2120 | 6300 | 5480 | 1800 | 915 | 1100 |
| 23.... | 691 | 708 | 547 | 467 | 616 | 744 | 2170 | 5700 | 5270 | 1650 | 1000 | 949 |
| 24.... | 794 | 633 | 525 | 474 | 688 | 941 | 2140 | 5510 | 4740 | 1540 | 1020 | 1040 |
| 25.... | 761 | 717 | 490 | 598 | 732 | 945 | 2200 | 5680 | 4320 | 1430 | 983 | 1080 |
| 26.... | 750 | 602 | 513 | 569 | 746 | 1060 | 2400 | 6120 | 3940 | 1340 | 1070 | 1070 |
| 27.... | 766 | 692 | 385 | 670 | 752 | 1060 | 2580 | 6780 | 3720 | 1290 | 1340 | 1110 |
| 28.... | 873 | 775 | 369 | 646 | 765 | 1120 | 2690 | 7380 | 3480 | 1190 | 1500 | 1290 |
| 29.... | 851 | 633 | 405 | 640 | 758 | 1120 | 2600 | 7720 | 3270 | 1100 | 1590 | 1330 |
| 30.... | 728 | 709 | 495 | 610 | .... | 1020 | 2350 | 7940 | 3120 | 1120 | 1540 | 1290 |
| 31.... | 778 | .... | 554 | 616 | .... | 983 | .... | 8550 | .... | 983 | 1480 | .... |
| Total | 27564 | 22327 | 17971 | 18083 | 18409 | 24520 | 45598 | 179130 | 182740 | 63403 | 29265 | 30748 |
| Mean. | 889 | 744 | 580 | 583 | 635 | 791 | 1520 | 5778 | 6091 | 2045 | 944 | 1025 |
| Max.. | 1090 | 951 | 730 | 676 | 765 | 1120 | 2690 | 8550 | 10600 | 3380 | 1590 | 1330 |
| Min.. | 691 | 574 | 369 | 436 | 545 | 523 | 835 | 1960 | 3120 | 983 | 542 | 710 |
| Ac.-ft. | 54670 | 44280 | 35640 | 35870 | 36510 | 48630 | 90440 | 355300 | 362500 | 125800 | 58050 | 60990 |

Total run-off for water year 1939-40=1,309,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River Near Cameo, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 1.... | 1970 | 1830 | 1650 | 1600 | 1400 | 1300 | 2350 | 9300 | 17800 | 5370 | 2440 | 1340 |
| 2.... | 1950 | 1850 | 1720 | 1580 | 1280 | 1300 | 2360 | 9880 | 18300 | 5160 | 2340 | 1310 |
| 3.... | 1930 | 1830 | 1750 | 1560 | 1250 | 1320 | 2470 | 11000 | 16200 | 5040 | 2220 | 1270 |
| 4.... | 1940 | 1850 | 1800 | 1600 | 1280 | 1340 | 2680 | 11800 | 15700 | 4780 | 2130 | 1290 |
| 5.... | 1940 | 1950 | 1880 | 1600 | 1350 | 1360 | 3050 | 12200 | 16400 | 4640 | 2030 | 1420 |
| 6.... | 1970 | 1950 | 1990 | 1520 | 1480 | 1380 | 3180 | 13000 | 17500 | 4440 | 1860 | 1760 |
| 7.... | 2000 | 1890 | 1820 | 1600 | 1420 | 1340 | 3320 | 13200 | 16600 | 4280 | 1990 | 2240 |
| 8.... | 2160 | 1520 | 1790 | 1580 | 1380 | 1320 | 3070 | 11600 | 14900 | 4050 | 2180 | 2280 |
| 9.... | 2180 | 1810 | 1810 | 1580 | 1400 | 1400 | 2890 | 10300 | 13400 | 3770 | 2070 | 2070 |
| 10.... | 2180 | 1810 | 1820 | 1560 | 1380 | 1480 | 2920 | 10600 | 12000 | 3680 | 2090 | 2070 |
| 11.... | 2180 | 1950 | 1930 | 1560 | 1320 | 1500 | 2910 | 11300 | 11300 | 3450 | 2020 | 2070 |
| 12.... | 2150 | 1990 | 1950 | 1580 | 1300 | 1500 | 2810 | 13000 | 11300 | 3390 | 1860 | 2750 |
| 13.... | 2110 | 1950 | 1780 | 1600 | 1300 | 1510 | 2680 | 12600 | 11200 | 3230 | 1710 | 2170 |
| 14.... | 2070 | 1580 | 1780 | 1520 | 1320 | 1550 | 2780 | 11800 | 11800 | 3120 | 1570 | 2130 |
| 15.... | 2040 | 1550 | 1670 | 1400 | 1360 | 1600 | 3020 | 12200 | 12400 | 2910 | 1480 | 1990 |
| 16.... | 2050 | 1760 | 1760 | 1370 | 1400 | 1600 | 3180 | 13900 | 12100 | 2750 | 1480 | 1830 |
| 17.... | 2110 | 1680 | 1850 | 1350 | 1420 | 1620 | 3070 | 15000 | 11500 | 2680 | 1430 | 1750 |
| 18.... | 2010 | 1750 | 2000 | 1400 | 1250 | 1660 | 2880 | 15100 | 10600 | 2540 | 1460 | 1620 |
| 19.... | 2000 | 1760 | 1600 | 1420 | 1200 | 1700 | 2650 | 14800 | 9440 | 2440 | 1410 | 1660 |
| 20.... | 1950 | 1750 | 1580 | 1440 | 1350 | 1720 | 2730 | 16500 | 8260 | 2280 | 1320 | 1600 |
| 21.... | 2020 | 1780 | 1600 | 1480 | 1500 | 1810 | 2640 | 18000 | 7420 | 2140 | 1250 | 1520 |
| 22.... | 1940 | 1740 | 1620 | 1500 | 1340 | 2000 | 2890 | 18600 | 6710 | 2030 | 1270 | 1460 |
| 23.... | 1870 | 1660 | 1600 | 1500 | 1240 | 2100 | 3680 | 19100 | 6520 | 1950 | 1220 | 1390 |
| 24.... | 1860 | 1670 | 1520 | 1350 | 1300 | 2140 | 4820 | 18800 | 6520 | 1780 | 1210 | 1390 |
| 25.... | 1700 | 1520 | 1480 | 1250 | 1400 | 2420 | 4940 | 17400 | 6520 | 1830 | 1190 | 1410 |
| 26.... | 1800 | 1580 | 1420 | 1200 | 1420 | 2620 | 4560 | 15200 | 6470 | 1740 | 1220 | 1420 |
| 27.... | 1790 | 1600 | 1400 | 1280 | 1400 | 2880 | 4500 | 13200 | 6080 | 1660 | 1160 | 1430 |
| 28.... | 1770 | 1610 | 1400 | 1320 | 1350 | 2990 | 5020 | 12200 | 5960 | 1650 | 1220 | 1470 |
| 29.... | 1870 | 1600 | 1420 | 1450 | .... | 2890 | 6300 | 12600 | 5750 | 1820 | 1250 | 1630 |
| 30.... | 1750 | 1580 | 1450 | 1520 | .... | 2620 | 8060 | 14500 | 5520 | 2030 | 1250 | 1670 |
| 31.... | 1780 | .... | 1520 | 1500 | .... | 2420 | .... | 16300 | .... | 2290 | 1280 | .... |
| Total | 61040 | 52350 | 52360 | 45770 | 37790 | 56390 | 104410 | 424980 | 331570 | 94920 | 50610 | 51410 |
| Mean. | 1969 | 1745 | 1689 | 1476 | 1350 | 1819 | 3480 | 13710 | 11050 | 3062 | 1633 | 1714 |
| Max. | 2180 | 1990 | 2000 | 1600 | 1500 | 2990 | 8060 | 19100 | 18300 | 5370 | 2440 | 2750 |
| Min. | 1750 | 1520 | 1400 | 1200 | 1200 | 1300 | 2350 | 9300 | 5520 | 1650 | 1160 | 1270 |
| Ac.-ft. | 121100 | 103800 | 103900 | 90780 | 74960 | 111800 | 207100 | 842900 | 657700 | 188300 | 100400 | 102000 |

Total run-off for water year 1938-39=2,705,000 acre-feet.

Discharge of Colorado River Near Cameo, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|--------|
| 1.... | 1620 | 1370 | 1160 | 1000 | 1030 | 1250 | 1520 | 3500 | 14100 | 4170 | 1410 | 1870 |
| 2.... | 1550 | 1410 | 1130 | 1100 | 1050 | 1280 | 1580 | 3190 | 15300 | 4090 | 1360 | 1690 |
| 3.... | 1600 | 1470 | 1120 | 1090 | 1100 | 1250 | 1720 | 3210 | 15700 | 4020 | 1340 | 1560 |
| 4.... | 1600 | 1410 | 1070 | 1100 | 1120 | 1180 | 1750 | 3960 | 15100 | 4120 | 1340 | 1440 |
| 5.... | 1600 | 1370 | 1120 | 1100 | 1060 | 1150 | 1700 | 5190 | 13600 | 4100 | 1290 | 1410 |
| 6.... | 1580 | 1520 | 1150 | 1100 | 1000 | 1160 | 1600 | 6150 | 12400 | 3910 | 1240 | 1360 |
| 7.... | 1630 | 1410 | 1080 | 1080 | 950 | 1050 | 1630 | 6610 | 11400 | 3560 | 1210 | 1350 |
| 8.... | 1680 | 1460 | 1060 | 1030 | 1000 | 1140 | 1670 | 7080 | 10100 | 3370 | 1180 | 1340 |
| 9.... | 1630 | 1470 | 1070 | 980 | 1000 | 1120 | 1590 | 7280 | 8980 | 3160 | 1170 | 1260 |
| 10.... | 1710 | 1440 | 1070 | 1090 | 970 | 1110 | 1540 | 8120 | 7960 | 2940 | 1180 | 1230 |
| 11.... | 1700 | 1460 | 1130 | 1140 | 980 | 1200 | 1470 | 9230 | 7020 | 2780 | 980 | 1270 |
| 12.... | 1650 | 1310 | 1070 | 1180 | 1020 | 1220 | 1450 | 10400 | 6780 | 2580 | 1050 | 1110 |
| 13.... | 1720 | 1420 | 1140 | 1080 | 1010 | 1170 | 1350 | 11700 | 7490 | 2420 | 1110 | 1430 |
| 14.... | 1750 | 1340 | 1080 | 1110 | 970 | 1130 | 1310 | 12500 | 8440 | 2290 | 1060 | 1510 |
| 15.... | 1710 | 1340 | 1000 | 980 | 1060 | 980 | 1430 | 11500 | 9280 | 2180 | 1060 | 1500 |
| 16.... | 1660 | 1310 | 1020 | 860 | 1070 | 1070 | 1680 | 10800 | 9170 | 2110 | 1130 | 1520 |
| 17.... | 1560 | 1280 | 962 | 920 | 1090 | 1060 | 1930 | 11600 | 8750 | 2070 | 1010 | 1480 |
| 18.... | 1500 | 1280 | 1020 | 1060 | 940 | 1200 | 2000 | 11400 | 8840 | 2130 | 940 | 1630 |
| 19.... | 1570 | 1210 | 1060 | 980 | 970 | 1150 | 2000 | 10100 | 8610 | 2230 | 970 | 1750 |
| 20.... | 1420 | 1150 | 944 | 890 | 1050 | 1240 | 2090 | 9480 | 8190 | 2550 | 1090 | 1910 |
| 21.... | 1460 | 1160 | 854 | 960 | 1030 | 1130 | 2390 | 9340 | 7960 | 2700 | 1180 | 1890 |
| 22.... | 4430 | 1140 | 1060 | 1030 | 1020 | 1210 | 3000 | 9030 | 7990 | 2370 | 950 | 2050 |
| 23.... | 1600 | 1160 | 1080 | 920 | 1090 | 1230 | 3260 | 8720 | 7700 | 2130 | 1270 | 2160 |
| 24.... | 1320 | 1230 | 980 | 830 | 1280 | 1270 | 3450 | 8390 | 7080 | 2030 | 1580 | 1970 |
| 25.... | 1390 | 1180 | 917 | 880 | 1280 | 1460 | 3820 | 8780 | 6320 | 1890 | 1480 | 2000 |
| 26.... | 1480 | 1210 | 900 | 960 | 1430 | 1580 | 3860 | 9260 | 5720 | 1770 | 1720 | 1990 |
| 27.... | 1480 | 1150 | 930 | 960 | 1380 | 1730 | 3910 | 9820 | 5280 | 1690 | 1780 | 1960 |
| 28.... | 1390 | 1230 | 720 | 1100 | 1320 | 1870 | 4340 | 10600 | 4880 | 1690 | 2020 | 2030 |
| 29.... | 1390 | 1240 | 700 | 1080 | 1290 | 1760 | 4250 | 11400 | 4430 | 1570 | 2120 | 3000 |
| 30.... | 1440 | 1140 | 820 | 1060 | .... | 1660 | 3910 | 12000 | 4320 | 1500 | 2090 | 3060 |
| 31.... | 1340 | .... | 1080 | 1040 | .... | 1540 | .... | 12800 | .... | 1470 | 1990 | .... |
| Total | 48160 | 39270 | 31497 | 31690 | 31560 | 39550 | 69200 | 273140 | 266870 | 81590 | 41300 | 51730 |
| Mean. | 1554 | 1309 | 1016 | 1022 | 1088 | 1276 | 2307 | 8811 | 8962 | 2632 | 1332 | 1724 |
| Max. | 1750 | 1520 | 1160 | 1180 | 1430 | 1870 | 4340 | 12800 | 15700 | 4170 | 2120 | 3060 |
| Min. | 1320 | 1140 | 700 | 830 | 940 | 980 | 1310 | 3190 | 4320 | 1470 | 940 | 1110 |
| Ac.-ft. | 95520 | 77890 | 62470 | 62860 | 62600 | 78450 | 137300 | 541800 | 533300 | 161800 | 81920 | 102600 |

Total run-off for water year 1939-40=1,999,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River Near Cisco, Utah, for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| 1.... | 3030 | 3030 | 3120 | 2500 | 2650 | 2650 | 5650 | 16600 | 22100 | 5880 | 2590 | 1630 |
| 2.... | 3120 | 3210 | 3030 | 2550 | 2650 | 2600 | 6340 | 17700 | 24100 | 5650 | 2760 | 1590 |
| 3.... | 3030 | 3490 | 3210 | 2600 | 2400 | 2600 | 7430 | 19700 | 23300 | 5540 | 2590 | 1520 |
| 4.... | 2760 | 3580 | 3300 | 2700 | 2350 | 2600 | 9000 | 20500 | 20900 | 5320 | 2350 | 1460 |
| 5.... | 2850 | 3490 | 3210 | 2700 | 2350 | 2600 | 10900 | 20500 | 20500 | 5100 | 2170 | 2500 |
| 6.... | 2940 | 3400 | 3300 | 2700 | 2500 | 2600 | 10900 | 21300 | 22100 | 4890 | 2220 | 3300 |
| 7.... | 2940 | 3600 | 3300 | 2600 | 2700 | 2600 | 10300 | 22500 | 22900 | 4580 | 2590 | 6340 |
| 8.... | 5320 | 3500 | 3210 | 2800 | 2600 | 2600 | 9070 | 20500 | 20900 | 4370 | 2400 | 4580 |
| 9.... | 4370 | 2900 | 3030 | 2750 | 2500 | 2700 | 8500 | 17300 | 18900 | 3970 | 3120 | 3970 |
| 10.... | 4580 | 3210 | 3120 | 2800 | 2550 | 2900 | 9070 | 16600 | 17300 | 3680 | 2760 | 3870 |
| 11.... | 4270 | 3780 | 3120 | 2850 | 2450 | 3000 | 9070 | 18100 | 15800 | 3490 | 2500 | 4890 |
| 12.... | 4170 | 3970 | 3210 | 2850 | 2350 | 3000 | 8780 | 19700 | 15400 | 3300 | 2270 | 5650 |
| 13.... | 4070 | 3970 | 3210 | 2800 | 2450 | 3000 | 8500 | 19700 | 15400 | 3120 | 1960 | 5540 |
| 14.... | 3970 | 3580 | 2940 | 2800 | 2350 | 2950 | 8220 | 18500 | 15800 | 2850 | 1640 | 5000 |
| 15.... | 3870 | 3210 | 2680 | 2700 | 2450 | 3100 | 8220 | 17300 | 16600 | 2680 | 1470 | 4580 |
| 16.... | 3780 | 3210 | 2590 | 2550 | 2550 | 3300 | 7690 | 18100 | 16600 | 2500 | 1340 | 4170 |
| 17.... | 3780 | 3460 | 2500 | 2400 | 2500 | 3200 | 7180 | 19300 | 15100 | 2370 | 1220 | 3780 |
| 18.... | 3970 | 3580 | 2760 | 2450 | 2600 | 3600 | 6450 | 19700 | 14300 | 2340 | 1140 | 3400 |
| 19.... | 3970 | 3580 | 2850 | 2550 | 2350 | 4070 | 5990 | 18900 | 12900 | 2230 | 1110 | 3120 |
| 20.... | 3870 | 3400 | 2850 | 2600 | 2200 | 4170 | 5760 | 19300 | 11200 | 2120 | 1060 | 2940 |
| 21.... | 3680 | 3400 | 2760 | 2600 | 2500 | 4470 | 6100 | 21700 | 9660 | 1920 | 1060 | 2760 |
| 22.... | 3680 | 3400 | 2940 | 2600 | 2600 | 5320 | 6450 | 23300 | 8780 | 1770 | 1030 | 2590 |
| 23.... | 3580 | 3400 | 2940 | 2600 | 2450 | 6100 | 7950 | 24100 | 7890 | 1650 | 960 | 2420 |
| 24.... | 3490 | 3100 | 2900 | 2650 | 2300 | 6930 | 10300 | 25000 | 7430 | 1600 | 960 | 2340 |
| 25.... | 3300 | 2800 | 2700 | 2600 | 2400 | 7950 | 10900 | 23700 | 7430 | 1520 | 970 | 2220 |
| 26.... | 3120 | 2800 | 2500 | 2400 | 2650 | 8500 | 10300 | 21300 | 7430 | 1510 | 950 | 2250 |
| 27.... | 3120 | 2800 | 2400 | 2250 | 2800 | 9000 | 9360 | 18100 | 7180 | 1470 | 904 | 2140 |
| 28.... | 3030 | 2760 | 2300 | 2300 | 2750 | 9000 | 9460 | 16200 | 6930 | 1510 | 1290 | 2220 |
| 29.... | 2940 | 2590 | 2300 | 2300 | .... | 8500 | 11200 | 16200 | 6450 | 1550 | 2010 | 2500 |
| 30.... | 3120 | 2900 | 2400 | 2600 | .... | 8000 | 14300 | 17500 | 6100 | 1720 | 2200 | 2590 |
| 31.... | 3030 | .... | 2450 | 2700 | .... | 7000 | .... | 20100 | .... | 2350 | 1770 | .... |
| Total | 110750 | 99040 | 89130 | 80850 | 69350 | 140610 | 259510 | 608800 | 437180 | 94560 | 55364 | 37860 |
| Mean. | 3573 | 3301 | 2875 | 2608 | 2498 | 4536 | 8651 | 19640 | 14570 | 3050 | 1786 | 3262 |
| Max. | 5320 | 3970 | 3300 | 2850 | 2800 | 9000 | 14300 | 25000 | 24100 | 5880 | 3120 | 6340 |
| Min. | 2760 | 2590 | 2300 | 2250 | 2200 | 2600 | 5650 | 16200 | 6100 | 1470 | 904 | 1460 |
| Ac.-ft. | 219700 | 196400 | 176800 | 160400 | 138700 | 278900 | 514800 | 1208000 | 867100 | 187600 | 109800 | 194100 |

Total run-off for water year 1938-39=4,252,000 acre-feet.

Discharge of Colorado River Near Cisco, Utah, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|-------|--------|
| 1.... | 2590 | 2270 | 2420 | 1840 | 2420 | 2850 | 3680 | 10300 | 20100 | 4580 | 1460 | 2420 |
| 2.... | 2590 | 2270 | 2420 | 2060 | 2590 | 2680 | 3780 | 9660 | 21700 | 4580 | 1320 | 2200 |
| 3.... | 2500 | 2500 | 2230 | 2400 | 2850 | 2680 | 3970 | 9360 | 22500 | 4370 | 1200 | 2040 |
| 4.... | 2590 | 2500 | 2370 | 2420 | 2760 | 2590 | 3780 | 9660 | 22500 | 4170 | 1200 | 2040 |
| 5.... | 2680 | 2590 | 2220 | 2420 | 2760 | 2500 | 3400 | 11900 | 20500 | 4270 | 1200 | 1740 |
| 6.... | 2680 | 2590 | 2270 | 2420 | 2500 | 2420 | 3490 | 14700 | 18900 | 4170 | 1200 | 1650 |
| 7.... | 2760 | 2680 | 2320 | 2320 | 2370 | 2370 | 3400 | 15100 | 17300 | 3870 | 1220 | 1580 |
| 8.... | 2420 | 2680 | 2270 | 2250 | 2300 | 2350 | 3680 | 16200 | 15400 | 3490 | 1080 | 1480 |
| 9.... | 2680 | 2680 | 2170 | 2190 | 2280 | 2390 | 3680 | 16600 | 14000 | 3210 | 970 | 1380 |
| 10.... | 2500 | 2760 | 2200 | 2110 | 2150 | 2300 | 3490 | 17300 | 12600 | 3630 | 913 | 1410 |
| 11.... | 2590 | 2680 | 2230 | 2190 | 2110 | 2340 | 3490 | 19700 | 11700 | 2760 | 922 | 1390 |
| 12.... | 2590 | 2760 | 2320 | 2390 | 2140 | 2420 | 3210 | 22100 | 10800 | 2590 | 895 | 1440 |
| 13.... | 2500 | 2590 | 2200 | 2590 | 2150 | 2500 | 3210 | 23300 | 9960 | 2350 | 841 | 1430 |
| 14.... | 2590 | 2760 | 2120 | 2400 | 2110 | 2400 | 3300 | 25000 | 10600 | 2190 | 796 | 1460 |
| 15.... | 2590 | 2590 | 2190 | 2120 | 2140 | 2270 | 3580 | 24100 | 11600 | 2060 | 796 | 1810 |
| 16.... | 2500 | 2680 | 1920 | 1780 | 2150 | 2190 | 4270 | 22500 | 12200 | 2090 | 744 | 1950 |
| 17.... | 2500 | 2590 | 1820 | 1710 | 2190 | 2120 | 5320 | 21300 | 11900 | 4470 | 712 | 2120 |
| 18.... | 2300 | 2680 | 1800 | 1600 | 2140 | 2200 | 5320 | 22500 | 11200 | 2940 | 728 | 2500 |
| 19.... | 2270 | 2320 | 1980 | 1840 | 2030 | 2370 | 5320 | 21300 | 11200 | 2680 | 704 | 3030 |
| 20.... | 2220 | 2350 | 2140 | 1750 | 1920 | 2390 | 5760 | 18500 | 10600 | 2680 | 712 | 3580 |
| 21.... | 2190 | 2390 | 1980 | 1780 | 2120 | 2420 | 7430 | 16500 | 9960 | 2850 | 980 | 3580 |
| 22.... | 2110 | 2300 | 1670 | 1930 | 2060 | 2370 | 9660 | 15800 | 9360 | 3030 | 1080 | 4270 |
| 23.... | 2120 | 2320 | 1770 | 1960 | 2030 | 2500 | 10900 | 15100 | 9360 | 2680 | 1150 | 3970 |
| 24.... | 2120 | 2420 | 1860 | 1750 | 2070 | 2680 | 10900 | 14300 | 8780 | 2420 | 1200 | 3970 |
| 25.... | 2040 | 2500 | 2110 | 1900 | 2420 | 2850 | 11600 | 14300 | 7950 | 2200 | 1900 | 3870 |
| 26.... | 1950 | 2420 | 1980 | 1940 | 2760 | 3300 | 12200 | 15100 | 7180 | 2030 | 3120 | 3870 |
| 27.... | 2190 | 2500 | 1780 | 2200 | 3400 | 3580 | 11900 | 15400 | 6340 | 1720 | 3210 | 3780 |
| 28.... | 2370 | 2420 | 1710 | 2350 | 3300 | 4370 | 12900 | 16600 | 5880 | 1540 | 2850 | 3680 |
| 29.... | 2270 | 2590 | 1750 | 2500 | 3030 | 4890 | 12200 | 17700 | 5440 | 1590 | 2940 | 9430 |
| 30.... | 2350 | 2590 | 1460 | 2500 | .... | 4580 | 10600 | 18100 | 5000 | 1600 | 2850 | 7560 |
| 31.... | 2270 | .... | 1670 | 2390 | .... | 3970 | .... | 18500 | .... | 1580 | 2680 | .... |
| Total | 74620 | 75970 | 63350 | 68050 | 69290 | 85840 | 189420 | 528580 | 372510 | 90390 | 43573 | 86630 |
| Mean. | 2407 | 2532 | 2044 | 2131 | 2389 | 2769 | 6314 | 17050 | 12420 | 2916 | 1406 | 2888 |
| Max. | 2760 | 2760 | 2420 | 2590 | 3400 | 4890 | 12900 | 25000 | 22500 | 4580 | 3210 | 9430 |
| Min. | 1950 | 2270 | 1460 | 1600 | 1920 | 2120 | 3210 | 9360 | 5000 | 1540 | 704 | 1380 |
| A.-ft. | 148000 | 150700 | 125700 | 131000 | 137400 | 170300 | 375700 | 1048000 | 738900 | 179300 | 86400 | 171800 |

Total run-off for water year 1939-40=3,463,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arapaho Creek Below Monarch Lake, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| 1..... | 18 | 10 | 9.5 | 7.5 | 6.5 | 8 | 12 | 294 | 562 | 194 | 68 | 13 |
| 2..... | 17 | 10 | 9.5 | 8 | 6.5 | 8 | 10 | 353 | 458 | 188 | 62 | 13 |
| 3..... | 17 | 10 | 9 | 8 | 6.5 | 8 | 11 | 391 | 426 | 188 | 56 | 12 |
| 4..... | 17 | 10 | 9 | 7.5 | 6.5 | 8 | 9.5 | 342 | 506 | 184 | 50 | 12 |
| 5..... | 17 | 11 | 9 | 7.5 | 6.5 | 8 | 9.0 | 361 | 592 | 168 | 44 | 12 |
| 6..... | 17 | 10 | 9 | 7.5 | 6.5 | 8 | 9.5 | 372 | 566 | 153 | 43 | 12 |
| 7..... | 16 | 10 | 8.5 | 7.5 | 7 | 8 | 9.5 | 294 | 490 | 141 | 53 | 13 |
| 8..... | 16 | 10 | 8.5 | 7.5 | 7 | 8 | 9.5 | 252 | 422 | 135 | 64 | 14 |
| 9..... | 16 | 12 | 8.5 | 7 | 7 | 8.5 | 9.5 | 276 | 383 | 132 | 60 | 15 |
| 10..... | 16 | 13 | 8.5 | 7 | 6.5 | 8.5 | 10 | 342 | 330 | 129 | 53 | 14 |
| 11..... | 16 | 12 | 8 | 7 | 6.5 | 8.5 | 11 | 320 | 353 | 126 | 44 | 16 |
| 12..... | 16 | 11 | 8 | 7 | 6.5 | 8.5 | 15 | 305 | 368 | 118 | 44 | 16 |
| 13..... | 15 | 10 | 8 | 7 | 6.5 | 8.5 | 16 | 266 | 430 | 112 | 45 | 16 |
| 14..... | 14 | 10 | 8 | 7 | 6.5 | 8.5 | 16 | 302 | 458 | 110 | 41 | 16 |
| 15..... | 14 | 10 | 8 | 7 | 6.5 | 8.5 | 17 | 387 | 482 | 101 | 40 | 17 |
| 16..... | 13 | 11 | 8 | 7 | 7 | 9 | 18 | 383 | 494 | 99 | 40 | 17 |
| 17..... | 13 | 14 | 8 | 6.5 | 7 | 9 | 17 | 312 | 470 | 96 | 37 | 17 |
| 18..... | 14 | 12 | 8 | 6.5 | 7 | 9 | 17 | 320 | 305 | 83 | 33 | 17 |
| 19..... | 16 | 12 | 8 | 6.5 | 7 | 9 | 18 | 372 | 273 | 76 | 31 | 17 |
| 20..... | 17 | 11 | 8 | 6.5 | 7 | 9.5 | 19 | 430 | 235 | 66 | 24 | 16 |
| 21..... | 18 | 10 | 8 | 6.5 | 7 | 9.5 | 21 | 395 | 214 | 62 | 19 | 15 |
| 22..... | 18 | 10 | 8.5 | 6.5 | 7 | 10 | 23 | 418 | 191 | 58 | 18 | 14 |
| 23..... | 19 | 9.5 | 8 | 6.5 | 7.5 | 10 | 25 | 454 | 191 | 53 | 17 | 13 |
| 24..... | 19 | 9.5 | 8 | 6.5 | 7.5 | 11 | 30 | 446 | 204 | 48 | 17 | 14 |
| 25..... | 17 | 9.5 | 8 | 6.5 | 8 | 11 | 36 | 361 | 225 | 44 | 14 | 13 |
| 26..... | 17 | 9 | 8 | 6.5 | 8 | 11 | 38 | 284 | 235 | 44 | 14 | 13 |
| 27..... | 14 | 9 | 8 | 6.5 | 8 | 12 | 44 | 242 | 228 | 51 | 13 | 14 |
| 28..... | 14 | 9.5 | 8 | 6.5 | 8 | 12 | 72 | 245 | 228 | 51 | 13 | 14 |
| 29..... | 13 | 9.5 | 8 | 6.5 | .... | 12 | 172 | 387 | 208 | 51 | 13 | 15 |
| 30..... | 12 | 9.5 | 8 | 6.5 | .... | 13 | 259 | 554 | 197 | 60 | 13 | 17 |
| 31..... | 11 | .... | 8 | .... | .... | 13 | .... | 579 | .... | 68 | 12 | .... |
| Total | 487 | 314 | 257.5 | 214.5 | 195.5 | 293.5 | 983.5 | 11039 | 10724 | 3189 | 1093 | 437 |
| Mean. | 15.7 | 10.5 | 8.3 | 6.9 | 7.0 | 9.5 | 32.8 | 356 | 357 | 103 | 35.3 | 14.6 |
| Max.. | 19 | 14 | 9.5 | 8 | 8 | 13 | 259 | 579 | 592 | 194 | 68 | 17 |
| Min.. | 11 | 9 | 8 | 6.5 | 6.5 | 8 | 9 | 242 | 191 | 44 | 12 | 12 |
| Acre-ft. | 966 | 623 | 511 | 425 | 388 | 582 | 1950 | 21900 | 21270 | 6330 | 2170 | 867 |

Total run-off for water year 1938-39=57,980 acre-feet.

Discharge of Arapaho Creek Below Monarch Lake, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|-------|-------|-------|-------|------|-------|-------|------|------|-------|
| 1.... | 18 | 11 | 9.6 | 7.9 | 6.5 | 6.4 | 12 | 54 | 611 | 208 | 39 | 63 |
| 2.... | 18 | 11 | 9.6 | 7.8 | 6.5 | 6.4 | 12 | 50 | 638 | 228 | 30 | 52 |
| 3.... | 18 | 11 | 9.6 | 7.7 | 6.4 | 6.5 | 12 | 61 | 594 | 242 | 31 | 46 |
| 4.... | 19 | 11 | 9.6 | 7.8 | 6.4 | 6.5 | 10 | 102 | 514 | 218 | 32 | 45 |
| 5.... | 19 | 12 | 9.6 | 7.9 | 6.3 | 6.5 | 11 | 155 | 558 | 158 | 31 | 44 |
| 6.... | 20 | 13 | 9.0 | 7.7 | 6.3 | 6.4 | 11 | 201 | 484 | 181 | 32 | 40 |
| 7.... | 20 | 13 | 9.0 | 7.6 | 6.2 | 6.4 | 11 | 211 | 373 | 188 | 33 | 38 |
| 8.... | 20 | 13 | 8.4 | 7.6 | 6.3 | 6.6 | 11 | 211 | 310 | 168 | 33 | 44 |
| 9.... | 20 | 11 | 8.1 | 7.6 | 6.3 | 6.9 | 11 | 235 | 276 | 148 | 31 | 46 |
| 10.... | 21 | 12 | 7.8 | 7.7 | 6.3 | 7.1 | 10 | 314 | 256 | 136 | 30 | 42 |
| 11.... | 21 | 11 | 8.1 | 7.6 | 6.3 | 7.0 | 13 | 339 | 290 | 131 | 29 | 40 |
| 12.... | 20 | 11 | 8.1 | 7.6 | 6.2 | 6.9 | 11 | 354 | 346 | 136 | 26 | 38 |
| 13.... | 20 | 12 | 7.8 | 7.6 | 6.1 | 6.7 | 11 | 350 | 369 | 131 | 25 | 38 |
| 14.... | 21 | 11 | 7.8 | 7.6 | 6.0 | 6.6 | 12 | 283 | 484 | 120 | 23 | 39 |
| 15.... | 21 | 11 | 8.1 | 7.4 | 5.9 | 6.8 | 13 | 269 | 528 | 109 | 23 | 38 |
| 16.... | 20 | 11 | 8.2 | 7.1 | 5.9 | 7.0 | 14 | 300 | 453 | 104 | 22 | 36 |
| 17.... | 20 | 11 | 8.3 | 6.8 | 5.9 | 7.2 | 16 | 321 | 441 | 112 | 21 | 34 |
| 18.... | 19 | 11 | 8.2 | 6.8 | 5.9 | 7.4 | 19 | 303 | 392 | 191 | 21 | 33 |
| 19.... | 19 | 11 | 8.0 | 6.8 | 6.0 | 7.7 | 30 | 266 | 380 | 184 | 20 | 34 |
| 20.... | 18 | 11 | 7.7 | 6.8 | 6.1 | 8.0 | 34 | 259 | 384 | 142 | 20 | 36 |
| 21.... | 17 | 11 | 7.6 | 6.7 | 6.0 | 8.6 | 42 | 235 | 365 | 125 | 21 | 38 |
| 22.... | 16 | 11 | 7.5 | 6.5 | 6.0 | 8.7 | 50 | 201 | 346 | 117 | 21 | 40 |
| 23.... | 15 | 11 | 7.5 | 6.4 | 5.9 | 8.9 | 58 | 191 | 324 | 104 | 22 | 44 |
| 24.... | 14 | 10 | 7.6 | 6.3 | 5.9 | 9.2 | 61 | 208 | 310 | 92 | 24 | 42 |
| 25.... | 14 | 11 | 7.6 | 6.3 | 6.0 | 10 | 63 | 242 | 290 | 82 | 38 | 42 |
| 26.... | 14 | 11 | 7.5 | 6.3 | 6.2 | 12 | 67 | 276 | 279 | 78 | 78 | 48 |
| 27.... | 13 | 10 | 7.4 | 6.2 | 6.2 | 11 | 78 | 332 | 252 | 67 | 131 | 54 |
| 28.... | 11 | 10 | 7.4 | 6.1 | 6.3 | 11 | 89 | 342 | 252 | 65 | 142 | 56 |
| 29.... | 11 | 10 | 7.2 | 6.1 | 6.4 | 10 | 80 | 396 | 245 | 61 | 122 | 58 |
| 30.... | 11 | 10 | 7.3 | 6.2 | .... | 10 | 63 | 437 | 222 | 58 | 94 | 58 |
| 31.... | 12 | .... | 7.7 | 6.4 | .... | 11 | .... | 484 | .... | 56 | 76 | .... |
| Total | 540 | 334 | 252.9 | 218.9 | 178.7 | 247.4 | 935 | 7982 | 11566 | 4140 | 1321 | 1306 |
| Mean. | 17.4 | 11.1 | 8.16 | 7.06 | 6.16 | 7.98 | 31.2 | 257 | 386 | 134 | 42.6 | 43.5 |
| Max.. | 21 | 13 | 9.6 | 7.9 | 6.5 | 12 | 89 | 484 | 638 | 242 | 142 | 63 |
| Min.. | 11 | 10 | 7.2 | 6.1 | 5.9 | 6.4 | 10 | 50 | 222 | 56 | 20 | 33 |
| Acre-ft. | 1070 | 662 | 502 | 434 | 354 | 491 | 1850 | 15830 | 22940 | 8210 | 2620 | 2590 |

Total run-off for water year 1939-40=57,550 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Willow Creek Near Granby, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 16 | 15 | 13 | 11 | 11 | 12 | 21 | 363 | 370 | 57 | 27 | 14 |
| 2.... | 16 | 15 | 13 | 11 | 11 | 12 | 21 | 414 | 327 | 52 | 24 | 13 |
| 3.... | 16 | 14 | 13 | 12 | 11 | 13 | 26 | 464 | 298 | 51 | 22 | 12 |
| 4.... | 16 | 16 | 12 | 12 | 11 | 13 | 29 | 433 | 298 | 49 | 21 | 12 |
| 5.... | 16 | 14 | 12 | 11 | 11 | 13 | 31 | 464 | 315 | 46 | 20 | 12 |
| 6.... | 16 | 14 | 12 | 11 | 11 | 13 | 30 | 506 | 305 | 44 | 22 | 13 |
| 7.... | 16 | 14 | 12 | 11 | 11 | 13 | 32 | 453 | 281 | 41 | 30 | 14 |
| 8.... | 16 | 15 | 12 | 11 | 11 | 13 | 32 | 409 | 250 | 40 | 24 | 14 |
| 9.... | 17 | 15 | 12 | 11 | 11 | 13 | 34 | 428 | 226 | 37 | 22 | 14 |
| 10.... | 17 | 16 | 12 | 11 | 11 | 13 | 33 | 495 | 204 | 36 | 19 | 12 |
| 11.... | 17 | 16 | 12 | 11 | 11 | 13 | 31 | 512 | 189 | 35 | 19 | 12 |
| 12.... | 16 | 15 | 12 | 11 | 11 | 13 | 34 | 492 | 178 | 34 | 19 | 13 |
| 13.... | 16 | 15 | 11 | 11 | 11 | 13 | 39 | 436 | 168 | 33 | 18 | 12 |
| 14.... | 16 | 14 | 11 | 11 | 11 | 14 | 46 | 412 | 164 | 31 | 18 | 12 |
| 15.... | 16 | 13 | 11 | 11 | 11 | 14 | 47 | 417 | 160 | 28 | 17 | 11 |
| 16.... | 15 | 14 | 11 | 11 | 11 | 14 | 44 | 442 | 151 | 27 | 17 | 11 |
| 17.... | 15 | 14 | 11 | 11 | 11 | 14 | 35 | 450 | 140 | 22 | 16 | 11 |
| 18.... | 15 | 14 | 11 | 11 | 11 | 14 | 35 | 470 | 122 | 26 | 16 | 10 |
| 19.... | 15 | 14 | 11 | 11 | 11 | 15 | 36 | 518 | 121 | 26 | 15 | 10 |
| 20.... | 13 | 14 | 11 | 11 | 12 | 15 | 39 | 539 | 112 | 25 | 14 | 10 |
| 21.... | 14 | 14 | 11 | 11 | 12 | 16 | 50 | 515 | 110 | 23 | 14 | 10 |
| 22.... | 15 | 14 | 11 | 11 | 12 | 16 | 77 | 500 | 100 | 23 | 15 | 10 |
| 23.... | 14 | 14 | 11 | 11 | 12 | 17 | 137 | 498 | 88 | 23 | 14 | 11 |
| 24.... | 14 | 14 | 11 | 11 | 12 | 18 | 129 | 470 | 86 | 23 | 14 | 12 |
| 25.... | 15 | 13 | 11 | 12 | 12 | 19 | 115 | 428 | 82 | 23 | 15 | 12 |
| 26.... | 15 | 13 | 11 | 12 | 12 | 20 | 118 | 368 | 74 | 24 | 15 | 11 |
| 27.... | 15 | 13 | 11 | 12 | 12 | 22 | 144 | 320 | 68 | 24 | 15 | 11 |
| 28.... | 15 | 13 | 11 | 12 | 12 | 22 | 216 | 298 | 64 | 24 | 17 | 12 |
| 29.... | 14 | 13 | 11 | 11 | .... | 23 | 303 | 298 | 61 | 25 | 17 | 13 |
| 30.... | 14 | 13 | 11 | 11 | .... | 24 | 341 | 322 | 59 | 25 | 16 | 12 |
| 31.... | 15 | .... | 11 | 11 | .... | 22 | .... | 348 | .... | 25 | 15 | .... |
| Total | 476 | 425 | 356 | 347 | 317 | 486 | 2305 | 13482 | 5181 | 1007 | 567 | 356 |
| Mean. | 15.4 | 14.2 | 11.5 | 11.2 | 11.3 | 15.7 | 76.8 | 435 | 173 | 32.5 | 18.3 | 11.9 |
| Max. | 17 | 16 | 13 | 12 | 12 | 24 | 341 | 539 | 370 | 57 | 30 | 14 |
| Min. | 13 | 13 | 11 | 11 | 11 | 12 | 21 | 298 | 59 | 23 | 14 | 10 |
| Acre-ft. | 944 | 843 | 706 | 688 | 629 | 964 | 4570 | 26740 | 10280 | 2000 | 1120 | 706 |

Total run-off for water year 1938-39=50,190 acre-feet.

Discharge of Willow Creek Near Granby, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|------|-------|------|------|------|-------|
| 1.... | 11 | 11 | 11 | 8.5 | 7.9 | 8.7 | 18 | 63 | 226 | 49 | 16 | 13 |
| 2.... | 11 | 12 | 11 | 8.4 | 8.2 | 8.8 | 19 | 76 | 228 | 51 | 15 | 12 |
| 3.... | 11 | 10 | 11 | 8.2 | 8.2 | 9.0 | 16 | 139 | 228 | 44 | 15 | 12 |
| 4.... | 13 | 10 | 11 | 8.4 | 8.5 | 9.0 | 16 | 184 | 212 | 43 | 14 | 13 |
| 5.... | 13 | 12 | 11 | 8.6 | 8.6 | 9.0 | 16 | 224 | 204 | 40 | 13 | 13 |
| 6.... | 13 | 12 | 10 | 8.5 | 8.6 | 9.0 | 17 | 240 | 200 | 47 | 13 | 12 |
| 7.... | 12 | 11 | 10 | 8.4 | 8.6 | 9.0 | 16 | 240 | 176 | 37 | 13 | 11 |
| 8.... | 12 | 10 | 10 | 8.4 | 8.7 | 9.0 | 16 | 243 | 153 | 34 | 14 | 11 |
| 9.... | 14 | 10 | 9.0 | 8.5 | 8.6 | 9.5 | 16 | 248 | 132 | 33 | 13 | 11 |
| 10.... | 13 | 9.5 | 8.5 | 8.5 | 8.6 | 9.8 | 15 | 262 | 118 | 31 | 12 | 11 |
| 11.... | 12 | 10 | 9.0 | 8.5 | 8.5 | 9.7 | 13 | 274 | 107 | 30 | 13 | 11 |
| 12.... | 12 | 11 | 9.0 | 8.4 | 8.4 | 9.5 | 14 | 281 | 101 | 31 | 12 | 11 |
| 13.... | 12 | 12 | 9.0 | 8.4 | 8.3 | 9.2 | 14 | 298 | 98 | 27 | 11 | 11 |
| 14.... | 12 | 11 | 8.6 | 8.4 | 8.2 | 9.0 | 21 | 274 | 96 | 26 | 11 | 12 |
| 15.... | 11 | 11 | 9.0 | 8.2 | 8.1 | 9.3 | 27 | 260 | 95 | 24 | 11 | 12 |
| 16.... | 11 | 11 | 9.0 | 8.0 | 8.1 | 9.6 | 29 | 272 | 91 | 24 | 11 | 11 |
| 17.... | 11 | 11 | 9.0 | 8.0 | 8.0 | 10 | 29 | 272 | 86 | 28 | 11 | 11 |
| 18.... | 11 | 11 | 9.0 | 8.0 | 8.0 | 10 | 31 | 255 | 82 | 48 | 11 | 11 |
| 19.... | 11 | 11 | 8.6 | 8.0 | 7.9 | 11 | 42 | 233 | 77 | 49 | 12 | 11 |
| 20.... | 11 | 11 | 8.6 | 8.0 | 7.8 | 12 | 55 | 224 | 75 | 32 | 13 | 11 |
| 21.... | 11 | 12 | 8.5 | 8.0 | 7.8 | 12 | 71 | 238 | 76 | 27 | 12 | 11 |
| 22.... | 10 | 12 | 8.5 | 7.8 | 7.9 | 13 | 82 | 212 | 70 | 26 | 16 | 11 |
| 23.... | 10 | 12 | 8.5 | 7.8 | 8.0 | 15 | 76 | 198 | 66 | 22 | 15 | 11 |
| 24.... | 11 | 11 | 8.6 | 7.8 | 8.0 | 17 | 88 | 191 | 59 | 22 | 17 | 11 |
| 25.... | 10 | 12 | 8.6 | 7.7 | 8.2 | 22 | 104 | 193 | 55 | 19 | 20 | 11 |
| 26.... | 11 | 12 | 8.6 | 7.6 | 8.3 | 20 | 112 | 202 | 51 | 18 | 25 | 12 |
| 27.... | 11 | 12 | 8.6 | 7.6 | 8.4 | 16 | 118 | 224 | 48 | 17 | 27 | 14 |
| 28.... | 11 | 11 | 8.4 | 7.6 | 8.5 | 16 | 112 | 216 | 45 | 18 | 26 | 13 |
| 29.... | 11 | 11 | 8.2 | 7.5 | 8.6 | 15 | 100 | 212 | 43 | 18 | 18 | 16 |
| 30.... | 10 | 11 | 8.4 | 7.5 | .... | 15 | 82 | 214 | 39 | 17 | 15 | 15 |
| 31.... | 10 | .... | 8.6 | 7.8 | .... | 18 | .... | 214 | .... | 17 | 13 | .... |
| Total | 353 | 333.5 | 284.8 | 251.0 | 239.5 | 369.1 | 1385 | 6876 | 3337 | 949 | 458 | 356 |
| Mean. | 11.4 | 11.1 | 9.19 | 8.10 | 8.26 | 11.9 | 46.2 | 222 | 111 | 30.6 | 14.8 | 11.9 |
| Max. | 14 | 12 | 11 | 8.6 | 8.7 | 22 | 118 | 298 | 228 | 51 | 27 | 16 |
| Min. | 10 | 9.5 | 8.2 | 7.5 | 7.8 | 8.7 | 13 | 63 | 39 | 17 | 11 | 11 |
| Acre-ft. | 700 | 661 | 565 | 498 | 475 | 732 | 2750 | 13640 | 6620 | 1880 | 908 | 706 |

Total run-off for water year 1939-40=30,140 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Fraser River Near West Portal (Arrow), Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|------|--------|-------|-------|-------|
| 1..... | 5.0 | 14 | 11 | 9.8 | 8.9 | 8.2 | 9.0 | 65 | 32 | 29 | 6.2 | 3.9 |
| 2..... | 5.2 | 13 | 11 | 9.4 | 8.6 | 8.2 | 10 | 74 | 22 | 7.8 | 5.9 | 3.7 |
| 3..... | 5.2 | 14 | 11 | 9.4 | 8.0 | 8.4 | 11 | 65 | 20 | 7.2 | 5.6 | 3.7 |
| 4..... | 5.2 | 15 | 11 | 9.4 | 7.8 | 8.4 | 12 | 54 | 20 | 7.2 | 5.2 | 3.7 |
| 5..... | 5.2 | 15 | 11 | 9.4 | 7.8 | 8.6 | 13 | 45 | 40 | 7.2 | 5.2 | 3.7 |
| 6..... | 5.3 | 15 | 11 | 9.4 | 8.0 | 8.2 | 14 | 35 | 156 | 7.2 | 5.6 | 3.9 |
| 7..... | 5.8 | 15 | 11 | 9.4 | 7.8 | 8.2 | 15 | 23 | 126 | 6.8 | 7.5 | 3.9 |
| 8..... | 5.3 | 16 | 11 | 9.4 | 7.8 | 8.0 | 12 | 24 | 101 | 6.8 | 5.9 | 3.9 |
| 9..... | 5.3 | 16 | 11 | 9.4 | 7.8 | 7.5 | 12 | 24 | 87 | 6.5 | 5.2 | 3.4 |
| 10..... | 5.5 | 15 | 11 | 9.4 | 8.9 | 7.5 | 12 | 23 | 59 | 6.5 | 4.9 | 3.2 |
| 11..... | 5.8 | 16 | 11 | 8.9 | 9.4 | 7.5 | 13 | 23 | 44 | 6.2 | 4.9 | 3.2 |
| 12..... | 5.5 | 17 | 11 | 7.8 | 9.4 | 7.5 | 16 | 23 | 39 | 5.9 | 4.9 | 3.2 |
| 13..... | 5.5 | 17 | 11 | 8.9 | 8.4 | 7.5 | 17 | 23 | 54 | 5.9 | 4.9 | 3.2 |
| 14..... | 5.5 | 17 | 11 | 8.9 | 7.8 | 7.5 | 18 | 21 | 46 | 6.2 | 4.9 | 3.2 |
| 15..... | 5.5 | 15 | 11 | 9.4 | 7.5 | 7.5 | 17 | 20 | 50 | 6.2 | 4.9 | 3.2 |
| 16..... | 5.5 | 14 | 11 | 9.4 | 7.5 | 8.0 | 16 | 21 | 40 | 6.2 | 4.6 | 3.0 |
| 17..... | 5.5 | 13 | 10 | 8.9 | 8.9 | 8.0 | 16 | 22 | 29 | 6.5 | 4.6 | 3.0 |
| 18..... | 5.5 | 13 | 10 | 8.9 | 7.5 | 8.0 | 17 | 20 | 14 | 5.9 | 4.6 | 3.0 |
| 19..... | 5.8 | 12 | 10 | 8.0 | 8.0 | 8.0 | 16 | 20 | 13 | 5.6 | 4.6 | 3.0 |
| 20..... | 7.8 | 12 | 10 | 8.4 | 9.4 | 8.0 | 16 | 20 | 13 | 5.2 | 4.6 | 3.0 |
| 21..... | 30 | 13 | 10 | 8.0 | 8.8 | 8.2 | 20 | 20 | 14 | 5.2 | 4.6 | 3.0 |
| 22..... | 17 | 12 | 9.8 | 8.0 | 8.4 | 8.4 | 27 | 21 | 13 | 5.2 | 4.6 | 3.0 |
| 23..... | 15 | 11 | 9.8 | 8.0 | 8.0 | 8.4 | 27 | 21 | 12 | 5.2 | 4.4 | 3.2 |
| 24..... | 15 | 11 | 9.8 | 7.8 | 8.2 | 8.6 | 25 | 22 | 11 | 5.2 | 4.4 | 3.2 |
| 25..... | 15 | 11 | 9.8 | 7.2 | 8.4 | 8.6 | 24 | 23 | 11 | 5.2 | 4.6 | 3.2 |
| 26..... | 16 | 12 | 9.8 | 7.8 | 8.0 | 9.0 | 27 | 24 | 11 | 5.6 | 4.4 | 3.2 |
| 27..... | 16 | 13 | 9.6 | 8.2 | 8.0 | 8.6 | 38 | 22 | 10 | 5.9 | 4.6 | 3.2 |
| 28..... | 15 | 13 | 9.6 | 8.4 | 7.8 | 8.8 | 41 | 20 | 9.9 | 5.9 | 4.6 | 3.7 |
| 29..... | 15 | 13 | 9.4 | 8.4 | ..... | 8.8 | 52 | 19 | 9.5 | 5.6 | 5.2 | 3.9 |
| 30..... | 14 | 12 | 9.4 | 8.4 | ..... | 8.6 | 54 | 19 | 9.5 | 6.2 | 4.4 | 3.7 |
| 31..... | 15 | ..... | 10 | 8.0 | ..... | 8.8 | ..... | 26 | ..... | 6.5 | 4.4 | ..... |
| Total | 293.9 | 415 | 323.0 | 270.1 | 230.8 | 253.5 | 617.0 | 882 | 1115.9 | 213.7 | 154.9 | 101.3 |
| Mean. | 9.48 | 13.8 | 10.4 | 8.71 | 8.24 | 8.18 | 20.6 | 28.5 | 37.2 | 6.89 | 5.00 | 3.38 |
| Max.. | 30 | 17 | 11 | 9.8 | 9.4 | 9.0 | 54 | 74 | 156 | 29 | 7.5 | 3.9 |
| Min.. | 5.0 | 11 | 9.4 | 7.3 | 7.5 | 7.5 | 9.0 | 19 | 9.5 | 5.2 | 4.4 | 3.0 |
| Acre-ft. | 583 | 823 | 641 | 536 | 458 | 503 | 1220 | 1750 | 2210 | 424 | 307 | 201 |

Total run-off for water year 1938-39=9,660 acre-feet.

Discharge of Fraser River Near Winter Park, Colorado (Formerly Called West Portal), for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| 1..... | 3.7 | 4.9 | 7.4 | 8.6 | 8.2 | 8.7 | 16 | 12 | 14 | 9.1 | 4.4 | 4.1 |
| 2..... | 3.7 | 4.9 | 7.6 | 8.6 | 8.2 | 8.0 | 17 | 13 | 14 | 10 | 4.1 | 3.9 |
| 3..... | 3.4 | 4.6 | 7.4 | 9.0 | 8.2 | 7.6 | 15 | 14 | 15 | 9.5 | 4.1 | 4.1 |
| 4..... | 4.1 | 4.4 | 7.2 | 9.2 | 7.8 | 7.4 | 13 | 13 | 15 | 9.1 | 3.9 | 4.6 |
| 5..... | 4.9 | 4.4 | 7.0 | 9.0 | 7.8 | 7.8 | 14 | 13 | 16 | 9.1 | 3.9 | 4.4 |
| 6..... | 4.9 | 4.6 | 6.7 | 8.6 | 7.8 | 8.6 | 17 | 13 | 18 | 8.6 | 3.9 | 4.1 |
| 7..... | 4.9 | 4.4 | 6.9 | 8.6 | 7.8 | 8.6 | 16 | 13 | 17 | 7.8 | 4.1 | 4.1 |
| 8..... | 4.9 | 4.1 | 7.8 | 8.6 | 7.8 | 8.6 | 16 | 14 | 17 | 7.5 | 4.1 | 4.1 |
| 9..... | 5.6 | 4.1 | 8.4 | 8.8 | 7.8 | 8.4 | 16 | 13 | 16 | 7.2 | 4.1 | 5.2 |
| 10..... | 5.6 | 4.1 | 8.4 | 9.2 | 7.5 | 8.8 | 14 | 13 | 15 | 7.2 | 3.9 | 5.9 |
| 11..... | 5.6 | 4.1 | 8.0 | 9.0 | 8.6 | 8.0 | 14 | 13 | 14 | 7.5 | 3.9 | 4.6 |
| 12..... | 5.6 | 4.1 | 7.4 | 9.0 | 8.4 | 7.1 | 16 | 12 | 14 | 7.2 | 3.9 | 4.1 |
| 13..... | 5.6 | 3.9 | 7.2 | 9.0 | 8.2 | 7.1 | 20 | 14 | 13 | 6.5 | 3.9 | 4.6 |
| 14..... | 5.6 | 3.9 | 7.4 | 8.8 | 8.0 | 7.1 | 23 | 12 | 13 | 6.5 | 3.7 | 4.6 |
| 15..... | 5.2 | 6.5 | 7.8 | 8.2 | 8.0 | 7.2 | 30 | 11 | 12 | 7.5 | 3.7 | 4.4 |
| 16..... | 5.2 | 11 | 8.2 | 8.4 | 7.6 | 7.4 | 30 | 12 | 12 | 7.2 | 3.7 | 4.4 |
| 17..... | 5.2 | 10 | 8.2 | 8.0 | 7.3 | 7.6 | 27 | 14 | 12 | 7.5 | 3.7 | 4.4 |
| 18..... | 5.2 | 9.8 | 7.6 | 7.5 | 7.8 | 7.8 | 31 | 15 | 12 | 9.1 | 3.7 | 4.6 |
| 19..... | 4.9 | 9.8 | 7.4 | 7.4 | 8.4 | 7.8 | 31 | 12 | 12 | 7.8 | 3.9 | 4.9 |
| 20..... | 4.9 | 9.2 | 7.4 | 8.2 | 8.8 | 7.8 | 26 | 12 | 12 | 6.2 | 3.9 | 4.9 |
| 21..... | 4.9 | 8.6 | 7.4 | 8.6 | 8.6 | 7.2 | 26 | 14 | 14 | 5.6 | 4.6 | 4.9 |
| 22..... | 4.9 | 8.4 | 7.2 | 7.5 | 9.1 | 7.8 | 22 | 12 | 12 | 5.6 | 5.2 | 4.6 |
| 23..... | 4.9 | 8.2 | 7.6 | 8.0 | 9.4 | 8.6 | 16 | 12 | 11 | 5.2 | 4.6 | 4.4 |
| 24..... | 4.9 | 8.0 | 7.4 | 8.1 | 9.0 | 9.9 | 13 | 12 | 10 | 5.2 | 5.2 | 4.4 |
| 25..... | 4.9 | 7.7 | 7.6 | 8.6 | 8.9 | 10 | 14 | 12 | 9.9 | 4.9 | 6.5 | 4.4 |
| 26..... | 5.2 | 7.8 | 7.8 | 9.0 | 8.6 | 10 | 16 | 13 | 9.5 | 4.9 | 5.6 | 6.5 |
| 27..... | 5.2 | 8.0 | 7.6 | 9.1 | 8.8 | 10 | 17 | 15 | 9.5 | 5.6 | 5.2 | 6.2 |
| 28..... | 4.9 | 7.6 | 7.4 | 9.1 | 9.2 | 9.5 | 14 | 14 | 8.6 | 5.9 | 4.9 | 5.2 |
| 29..... | 5.2 | 7.4 | 7.4 | 8.6 | 9.0 | 7.8 | 12 | 13 | 8.2 | 5.2 | 4.4 | 5.2 |
| 30..... | 4.9 | 7.2 | 7.6 | 8.6 | ..... | 6.8 | 9.9 | 13 | 8.6 | 4.6 | 4.1 | 5.9 |
| 31..... | 4.9 | ..... | 8.0 | 8.2 | ..... | 9.1 | ..... | 13 | ..... | 4.4 | 4.1 | ..... |
| Total | 153.5 | 195.7 | 234.4 | 265.1 | 240.6 | 254.1 | 561.9 | 401 | 384.3 | 215.2 | 132.9 | 141.7 |
| Mean. | 4.95 | 6.52 | 7.56 | 8.55 | 8.30 | 8.20 | 18.7 | 12.9 | 12.8 | 6.94 | 4.29 | 4.72 |
| Max.. | 5.6 | 11 | 8.4 | 9.2 | 9.4 | 10 | 31 | 15 | 18 | 10 | 6.5 | 6.5 |
| Min.. | 3.4 | 3.9 | 6.7 | 7.4 | 7.3 | 6.8 | 9.9 | 11 | 8.2 | 4.4 | 3.7 | 3.9 |
| Acre-ft. | 304 | 388 | 465 | 526 | 477 | 504 | 1110 | 795 | 762 | 427 | 264 | 281 |

Total run-off for water year 1939-40=6,300 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Table to Correct Fraser River Near Winter Park, Colorado, for Diversion by Moffat Tunnel Above Station. For Water Year October 1, 1938, to September 30, 1939.

| Month | Runoff in Acre-Feet | Diverted by Moffat Tunnel Acre-Feet | Corrected for Diversion Acre-Feet |
|---|------------------------|---|---|
| October | 583 | 436 | 1020 |
| November | 823 | 0 | 823 |
| December | 641 | 0 | 641 |
| January | 536 | 0 | 536 |
| February | 458 | 0 | 458 |
| March | 503 | 0 | 503 |
| April | 1220 | 0 | 1220 |
| May | 1750 | 4380 | 6130 |
| June | 2210 | 6220 | 8430 |
| July | 424 | 2280 | 2700 |
| August | 307 | 1000 | 1310 |
| September | 201 | 653 | 854 |
| Total run-off for water year 1938-1939..... | 9660 | 14970 | 24620 |

For Water Year October 1, 1939, to September 30, 1940.

| | | | |
|---|------|-------|-------|
| October | 304 | 522 | 826 |
| November | 388 | 226 | 614 |
| December | 465 | 0 | 465 |
| January | 526 | 0 | 526 |
| February | 477 | 0 | 477 |
| March | 504 | 0 | 504 |
| April | 1110 | 197 | 1310 |
| May | 795 | 3220 | 4020 |
| June | 762 | 6610 | 7370 |
| July | 427 | 2530 | 2960 |
| August | 264 | 1030 | 1290 |
| September | 281 | 904 | 1180 |
| Total run-off for water year 1939-40..... | 6300 | 15240 | 21540 |

Discharge of Fraser River at Granby, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|-------|------|------|-------|
| 1.... | 55 | 62 | 54 | 36 | 34 | 37 | 106 | 420 | 815 | 157 | 68 | 35 |
| 2.... | 57 | 62 | 52 | 36 | 33 | 37 | 151 | 490 | 656 | 116 | 57 | 33 |
| 3.... | 62 | 59 | 52 | 37 | 33 | 38 | 176 | 506 | 524 | 100 | 44 | 29 |
| 4.... | 61 | 71 | 54 | 37 | 34 | 38 | 196 | 474 | 577 | 91 | 43 | 28 |
| 5.... | 61 | 71 | 58 | 36 | 34 | 38 | 217 | 479 | 632 | 89 | 40 | 28 |
| 6.... | 66 | 55 | 56 | 35 | 34 | 39 | 157 | 501 | 732 | 85 | 43 | 31 |
| 7.... | 73 | 64 | 54 | 34 | 34 | 41 | 116 | 405 | 644 | 73 | 83 | 39 |
| 8.... | 68 | 75 | 52 | 34 | 33 | 42 | 109 | 375 | 539 | 70 | 66 | 39 |
| 9.... | 64 | 77 | 54 | 34 | 33 | 45 | 148 | 395 | 501 | 62 | 54 | 36 |
| 10.... | 64 | 85 | 58 | 34 | 32 | 46 | 129 | 452 | 474 | 59 | 47 | 31 |
| 11.... | 62 | 85 | 56 | 34 | 32 | 47 | 109 | 436 | 410 | 55 | 46 | 30 |
| 12.... | 61 | 77 | 48 | 33 | 33 | 48 | 118 | 436 | 390 | 52 | 44 | 30 |
| 13.... | 57 | 54 | 43 | 32 | 34 | 49 | 170 | 415 | 400 | 51 | 40 | 31 |
| 14.... | 57 | 54 | 40 | 32 | 35 | 50 | 183 | 436 | 431 | 47 | 37 | 31 |
| 15.... | 59 | 58 | 42 | 32 | 35 | 52 | 160 | 469 | 425 | 43 | 36 | 30 |
| 16.... | 55 | 66 | 44 | 32 | 34 | 54 | 129 | 463 | 405 | 47 | 35 | 28 |
| 17.... | 55 | 69 | 45 | 32 | 34 | 56 | 109 | 447 | 365 | 44 | 34 | 28 |
| 18.... | 55 | 66 | 43 | 32 | 34 | 58 | 102 | 458 | 304 | 40 | 35 | 27 |
| 19.... | 59 | 64 | 39 | 32 | 34 | 58 | 140 | 501 | 261 | 40 | 30 | 27 |
| 20.... | 52 | 60 | 39 | 32 | 35 | 56 | 123 | 528 | 235 | 37 | 26 | 27 |
| 21.... | 66 | 59 | 41 | 32 | 36 | 58 | 151 | 517 | 235 | 34 | 29 | 26 |
| 22.... | 79 | 57 | 41 | 32 | 37 | 62 | 239 | 539 | 232 | 29 | 33 | 25 |
| 23.... | 66 | 58 | 40 | 32 | 37 | 68 | 296 | 573 | 193 | 28 | 29 | 27 |
| 24.... | 61 | 60 | 38 | 32 | 38 | 72 | 242 | 573 | 170 | 27 | 28 | 30 |
| 25.... | 62 | 64 | 37 | 33 | 38 | 78 | 232 | 556 | 183 | 27 | 30 | 33 |
| 26.... | 64 | 62 | 36 | 33 | 38 | 78 | 235 | 517 | 167 | 28 | 30 | 33 |
| 27.... | 64 | 54 | 38 | 34 | 37 | 78 | 273 | 436 | 145 | 37 | 36 | 33 |
| 28.... | 66 | 53 | 39 | 34 | 37 | 82 | 342 | 400 | 129 | 47 | 36 | 31 |
| 29.... | 61 | 54 | 39 | 35 | .... | 88 | 410 | 425 | 121 | 41 | 43 | 36 |
| 30.... | 61 | 56 | 38 | 35 | .... | 96 | 410 | 517 | 116 | 49 | 43 | 35 |
| 31.... | 64 | .... | 37 | 35 | .... | 105 | .... | 620 | .... | 87 | 40 | .... |
| Total | 1917 | 1911 | 1407 | 1043 | 972 | 1794 | 5678 | 14759 | 11417 | 1792 | 1285 | 927 |
| Mean. | 61.8 | 63.7 | 45.4 | 33.6 | 34.7 | 57.9 | 189 | 476 | 381 | 57.8 | 41.5 | 30.9 |
| Max. | 79 | 85 | 58 | 37 | 38 | 105 | 410 | 620 | 815 | 157 | 83 | 39 |
| Min. | 52 | 53 | 36 | 32 | 32 | 37 | 102 | 375 | 116 | 27 | 26 | 25 |
| Acre-ft. | 3800 | 3790 | 2790 | 2070 | 1930 | 3560 | 11260 | 29270 | 22650 | 3550 | 2550 | 1840 |

Total run-off for water year 1938-39=89,060 acre-feet.

Discharge of Fraser River at Granby, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 31 | 38 | 44 | 45 | 41 | 47 | 111 | 118 | 420 | 89 | 28 | 37 |
| 2.... | 33 | 37 | 47 | 43 | 40 | 46 | 106 | 134 | 431 | 148 | 31 | 37 |
| 3.... | 31 | 36 | 46 | 43 | 40 | 45 | 79 | 164 | 436 | 145 | 34 | 37 |
| 4.... | 35 | 35 | 46 | 43 | 40 | 44 | 81 | 190 | 400 | 140 | 36 | 54 |
| 5.... | 41 | 39 | 46 | 44 | 39 | 46 | 87 | 221 | 420 | 121 | 35 | 47 |
| 6.... | 41 | 41 | 45 | 43 | 38 | 47 | 93 | 228 | 431 | 134 | 33 | 43 |
| 7.... | 40 | 37 | 45 | 41 | 39 | 46 | 75 | 254 | 365 | 91 | 35 | 41 |
| 8.... | 37 | 36 | 44 | 41 | 39 | 46 | 70 | 239 | 338 | 75 | 37 | 39 |
| 9.... | 49 | 35 | 44 | 39 | 39 | 47 | 81 | 235 | 304 | 66 | 40 | 47 |
| 10.... | 47 | 35 | 44 | 39 | 39 | 48 | 79 | 280 | 254 | 57 | 39 | 64 |
| 11.... | 44 | 35 | 42 | 39 | 38 | 48 | 71 | 333 | 246 | 61 | 46 | 55 |
| 12.... | 41 | 36 | 41 | 37 | 36 | 46 | 64 | 361 | 250 | 70 | 37 | 47 |
| 13.... | 40 | 37 | 42 | 36 | 34 | 44 | 77 | 390 | 254 | 52 | 35 | 44 |
| 14.... | 40 | 38 | 43 | 36 | 33 | 44 | 113 | 342 | 288 | 44 | 31 | 49 |
| 15.... | 37 | 39 | 44 | 35 | 32 | 45 | 157 | 324 | 292 | 39 | 30 | 47 |
| 16.... | 37 | 39 | 44 | 36 | 34 | 47 | 145 | 338 | 284 | 46 | 30 | 44 |
| 17.... | 36 | 39 | 43 | 35 | 33 | 49 | 104 | 365 | 273 | 75 | 29 | 44 |
| 18.... | 35 | 38 | 41 | 34 | 33 | 48 | 126 | 380 | 254 | 183 | 27 | 47 |
| 19.... | 35 | 40 | 41 | 33 | 35 | 50 | 190 | 304 | 228 | 137 | 27 | 52 |
| 20.... | 35 | 41 | 42 | 34 | 35 | 54 | 232 | 288 | 221 | 87 | 35 | 79 |
| 21.... | 35 | 42 | 41 | 34 | 34 | 58 | 242 | 380 | 304 | 71 | 40 | 54 |
| 22.... | 35 | 43 | 39 | 33 | 36 | 58 | 203 | 320 | 300 | 62 | 55 | 51 |
| 23.... | 34 | 43 | 40 | 34 | 38 | 58 | 142 | 273 | 207 | 43 | 43 | 49 |
| 24.... | 34 | 42 | 38 | 35 | 41 | 70 | 151 | 261 | 170 | 34 | 46 | 46 |
| 25.... | 31 | 41 | 40 | 36 | 41 | 84 | 145 | 269 | 132 | 34 | 75 | 44 |
| 26.... | 34 | 41 | 41 | 37 | 42 | 92 | 154 | 296 | 134 | 30 | 71 | 57 |
| 27.... | 36 | 43 | 41 | 36 | 43 | 80 | 173 | 400 | 116 | 29 | 68 | 79 |
| 28.... | 35 | 43 | 39 | 38 | 44 | 70 | 170 | 375 | 91 | 33 | 66 | 62 |
| 29.... | 37 | 43 | 41 | 39 | 46 | 61 | 142 | 365 | 81 | 36 | 52 | 62 |
| 30.... | 36 | 42 | 43 | 39 | .... | 66 | 129 | 361 | 77 | 39 | 44 | 64 |
| 31.... | 38 | .... | 45 | 40 | .... | 91 | .... | 390 | .... | 35 | 40 | .... |
| Total | 1150 | 1174 | 1322 | 1177 | 1102 | 1725 | 3792 | 9183 | 8001 | 2308 | 1275 | 1522 |
| Mean. | 37.1 | 39.1 | 42.6 | 38.0 | 38.0 | 55.6 | 126 | 296 | 267 | 74.4 | 41.1 | 50.7 |
| Max. | 49 | 43 | 47 | 45 | 46 | 92 | 242 | 400 | 436 | 183 | 75 | 79 |
| Min. | 31 | 35 | 38 | 33 | 32 | 44 | 64 | 118 | 77 | 29 | 27 | 37 |
| Acre-ft. | 2250 | 2330 | 2620 | 2330 | 2190 | 3420 | 7520 | 18210 | 15870 | 4570 | 2530 | 3020 |

Total run-off for water year 1939-40=66,890 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Table to Correct Fraser River at Granby for Diversion by Moffat Tunnel for Water Year October 1, 1938, to September 30, 1939.

| Month | Runoff in Acre-Feet | Diversion by Moffat Tunnel Acre-Feet | Corrected for Diversion Acre-Feet |
|---|------------------------|--|---|
| October | 3800 | 1220 | 5020 |
| November | 3790 | 0 | 3790 |
| December | 2790 | 0 | 2790 |
| January | 2070 | 0 | 2070 |
| February | 1930 | 0 | 1930 |
| March | 3560 | 0 | 3560 |
| April | 11260 | 0 | 11260 |
| May | 29270 | 8550 | 37820 |
| June | 22650 | 12570 | 35220 |
| July | 3550 | 4880 | 8430 |
| August | 2550 | 2230 | 4780 |
| September | 1840 | 1410 | 3250 |
| Total run-off for water year 1938-1939..... | 89060 | 30860 | 119900 |

For Water Year October 1, 1939, to September 30, 1940.

| | | | |
|---|-------|-------|-------|
| October | 2280 | 1090 | 3370 |
| November | 2330 | 401 | 2730 |
| December | 2620 | 0 | 2620 |
| January | 2330 | 0 | 2330 |
| February | 2190 | 0 | 2190 |
| March | 3420 | 0 | 3420 |
| April | 7520 | 232 | 7750 |
| May | 18210 | 6080 | 24290 |
| June | 15970 | 12170 | 28040 |
| July | 4570 | 5320 | 9890 |
| August | 2530 | 2210 | 4740 |
| September | 3020 | 1890 | 4910 |
| Total run-off for water year 1939-1940..... | 66890 | 29390 | 96280 |

Discharge of Vasquez Creek Near West Portal, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|
| 1.... | 4.0 | 15 | 13 | 8.5 | 6.0 | 7.4 | 7.8 | 34 | 11 | 35 | 5.1 | 2.7 |
| 2.... | 4.3 | 15 | 12 | 8.5 | 5.7 | 7.8 | 8.2 | 39 | 10 | 5 | 4.6 | 2.7 |
| 3.... | 4.6 | 15 | 10 | 8.5 | 5.7 | 8.2 | 9.3 | 39 | 8 | 3 | 4.0 | 2.5 |
| 4.... | 4.3 | 15 | 9.6 | 8.5 | 5.7 | 8.2 | 9.3 | 42 | 8 | 3 | 4.0 | 2.5 |
| 5.... | 4.3 | 16 | 9.6 | 8.9 | 5.7 | 8.2 | 9.6 | 47 | 20 | 3 | 4.3 | 2.5 |
| 6.... | 4.3 | 14 | 9.3 | 8.9 | 5.7 | 8.2 | 12 | 47 | 32 | 3 | 4.0 | 2.9 |
| 7.... | 4.8 | 13 | 9.3 | 8.9 | 5.7 | 8.2 | 12 | 38 | 39 | 2 | 5.7 | 2.9 |
| 8.... | 4.6 | 12 | 9.3 | 8.9 | 5.7 | 8.2 | 8.9 | 40 | 38 | 2.5 | 4.6 | 2.0 |
| 9.... | 4.3 | 12 | 9.3 | 8.9 | 6.3 | 8.2 | 9.3 | 49 | 32 | 2.5 | 4.0 | 2.0 |
| 10.... | 4.6 | 11 | 9.3 | 8.5 | 6.3 | 8.2 | 8.5 | 55 | 26 | 2.2 | 3.7 | 1.3 |
| 11.... | 4.3 | 11 | 9.0 | 8.5 | 6.0 | 8.2 | 8.5 | 54 | 8 | 2.0 | 3.7 | 1.8 |
| 12.... | 4.0 | 11 | 8.4 | 8.2 | 6.0 | 7.8 | 8.5 | 48 | 7 | 1.8 | 3.4 | 1.8 |
| 13.... | 4.0 | 12 | 8.0 | 8.2 | 6.0 | 7.4 | 10 | 42 | 20 | 1.3 | 3.4 | 1.8 |
| 14.... | 4.3 | 12 | 8.2 | 7.8 | 5.7 | 7.4 | 10 | 39 | 53 | 1.1 | 3.2 | 1.8 |
| 15.... | 4.3 | 13 | 9.0 | 7.8 | 5.7 | 7.0 | 10 | 23 | 55 | 1.1 | 3.2 | 2.0 |
| 16.... | 4.3 | 13 | 9.6 | 7.4 | 5.7 | 7.8 | 8.9 | 11 | 41 | 1.1 | 3.2 | 1.8 |
| 17.... | 4.6 | 13 | 9.3 | 7.0 | 5.7 | 7.0 | 9.6 | 10 | 27 | .9 | 2.9 | 1.8 |
| 18.... | 4.0 | 13 | 8.5 | 8.2 | 6.0 | 6.7 | 12 | 7.8 | 7 | .7 | 2.7 | 1.8 |
| 19.... | 4.0 | 13 | 8.9 | 7.4 | 6.0 | 6.7 | 12 | 5.1 | 2 | 1.0 | 2.7 | 1.8 |
| 20.... | 7.8 | 13 | 8.5 | 6.7 | 6.3 | 7.8 | 10 | 4.8 | 4 | .9 | 2.7 | 1.0 |
| 21.... | 18 | 12 | 8.5 | 6.3 | 6.3 | 8.2 | 10 | 4.3 | 3 | .9 | 2.7 | .5 |
| 22.... | 17 | 12 | 8.5 | 6.0 | 6.3 | 8.5 | 14 | 4.3 | 3 | .4 | 2.7 | .3 |
| 23.... | 17 | 12 | 8.5 | 6.0 | 6.3 | 7.4 | 18 | 14 | 3 | .3 | 2.5 | .3 |
| 24.... | 19 | 11 | 8.5 | 5.7 | 6.3 | 7.4 | 14 | 35 | 2 | .5 | 2.5 | .4 |
| 25.... | 19 | 11 | 8.5 | 6.0 | 6.3 | 7.4 | 12 | 14 | 2 | .3 | 2.9 | .4 |
| 26.... | 18 | 11 | 8.2 | 6.2 | 6.3 | 7.4 | 14 | 4.8 | 2 | .3 | 2.7 | .4 |
| 27.... | 17 | 12 | 8.2 | 6.4 | 6.7 | 8.2 | 17 | 3.4 | 2 | .4 | 2.5 | .4 |
| 28.... | 16 | 12 | 8.5 | 6.4 | 6.7 | 7.8 | 27 | 3.0 | 2 | .6 | 2.7 | .4 |
| 29.... | 15 | 13 | 8.5 | 6.6 | .... | 7.4 | 33 | 3.0 | 2 | .2 | 2.9 | 1.0 |
| 30.... | 15 | 13 | 8.2 | 6.7 | .... | 7.4 | 34 | 3.0 | 10 | 2.0 | 3.2 | 1.8 |
| 31.... | 15 | .... | 8.2 | 6.7 | .... | 6.7 | .... | 15 | .... | 5.1 | 2.9 | .... |
| Total | 275.7 | 381 | 280.4 | 233.2 | 168.8 | 238.4 | 387.8 | 778.5 | 482 | 84.1 | 105.3 | 48.0 |
| Mean. | 8.89 | 12.7 | 9.05 | 7.52 | 6.03 | 7.69 | 12.9 | 25.1 | 16.1 | 2.71 | 3.40 | 1.60 |
| Max.. | 19 | 16 | 13 | 8.9 | 6.7 | 8.2 | 34 | 55 | 55 | 35 | 5.7 | 2.9 |
| Min.. | 4.0 | 11 | 8.0 | 5.7 | 5.7 | 6.7 | 7.8 | 3.0 | 2 | .2 | 2.5 | .3 |
| Acre-ft. | 547 | 756 | 556 | 463 | 335 | 473 | 769 | 1540 | 956 | 167 | 209 | 95 |

Total run-off for water year 1938-39=6,870 acre-feet.

Discharge of Vasquez Creek Near Winter Park, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| 1.... | 1.6 | 2.7 | 5.8 | 5.0 | 5.2 | 5.8 | 7.8 | 5.7 | 0.2 | 0.2 | 3.2 | 2.2 |
| 2.... | 1.6 | 2.7 | 5.8 | 4.9 | 5.1 | 5.3 | 7.8 | 6.7 | .8 | .2 | 3.2 | 2.2 |
| 3.... | 1.6 | 2.5 | 5.6 | 5.1 | 5.0 | 5.1 | 7.0 | 7.8 | .2 | .1 | 3.2 | 2.2 |
| 4.... | 2.2 | 2.3 | 5.2 | 5.2 | 4.9 | 5.4 | 7.4 | 8.2 | .1 | .2 | 2.5 | 2.9 |
| 5.... | 2.2 | 2.5 | 5.0 | 5.2 | 4.9 | 5.4 | 7.4 | 7.8 | .2 | .2 | 2.7 | 2.7 |
| 6.... | 2.2 | 2.5 | 4.8 | 5.0 | 5.0 | 5.7 | 7.4 | 7.0 | .2 | .2 | 2.5 | 2.5 |
| 7.... | 2.2 | 2.5 | 5.0 | 4.8 | 5.0 | 5.4 | 6.7 | 7.0 | .2 | .1 | 2.5 | 2.5 |
| 8.... | 2.2 | 2.3 | 5.2 | 4.8 | 5.0 | 5.4 | 7.8 | 7.0 | .1 | .1 | 2.7 | 2.5 |
| 9.... | 2.9 | 2.3 | 5.6 | 5.0 | 5.0 | 5.7 | 7.0 | 5.7 | .1 | .1 | 2.7 | 2.5 |
| 10.... | 2.2 | 2.5 | 5.8 | 5.2 | 4.9 | 5.7 | 6.7 | 5.7 | .1 | .1 | 2.5 | 2.9 |
| 11.... | 1.3 | 2.7 | 5.4 | 4.8 | 5.2 | 5.7 | 8.2 | 5.4 | .1 | .1 | 2.5 | 2.5 |
| 12.... | 1.0 | 2.7 | 5.2 | 4.8 | 5.3 | 5.7 | 8.9 | 5.7 | .1 | .1 | 2.2 | 2.2 |
| 13.... | 2.5 | 2.5 | 4.8 | 4.8 | 5.2 | 5.8 | 8.5 | 6.0 | .1 | .1 | 2.2 | 2.5 |
| 14.... | 2.1 | 3.8 | 4.8 | 4.5 | 5.1 | 5.4 | 8.5 | 5.4 | .1 | .1 | 2.2 | 2.5 |
| 15.... | 2.1 | 7.5 | 5.0 | 4.2 | 5.0 | 5.2 | 9.3 | 4.0 | .1 | .1 | 2.0 | 2.5 |
| 16.... | 2.5 | 9.0 | 5.4 | 4.2 | 4.8 | 5.6 | 8.9 | 2.2 | .1 | .1 | 2.0 | 2.2 |
| 17.... | 2.5 | 8.6 | 5.4 | 4.1 | 4.8 | 5.7 | 8.5 | 1.8 | .1 | .1 | 2.0 | 2.5 |
| 18.... | 2.5 | 8.4 | 5.0 | 3.9 | 5.0 | 5.7 | 9.3 | 2.5 | .1 | .4 | 2.0 | 2.5 |
| 19.... | 2.5 | 8.0 | 4.8 | 3.9 | 5.4 | 5.7 | 11 | 1.3 | .1 | 2.9 | 2.0 | 2.7 |
| 20.... | 2.2 | 8.0 | 4.7 | 4.2 | 5.4 | 5.7 | 16 | 1.0 | .1 | 1.3 | 2.5 | 2.9 |
| 21.... | 2.2 | 7.8 | 4.7 | 4.7 | 5.4 | 5.7 | 15 | 1.3 | .1 | .1 | 2.9 | 2.5 |
| 22.... | 2.2 | 7.6 | 4.6 | 4.2 | 5.8 | 5.7 | 14 | 1.3 | .1 | .1 | 3.2 | 2.2 |
| 23.... | 2.2 | 7.2 | 4.7 | 4.3 | 5.8 | 5.7 | 13 | 1.1 | .1 | .1 | 2.7 | 2.0 |
| 24.... | 2.2 | 7.0 | 4.6 | 4.6 | 5.8 | 5.7 | 14 | 1.0 | .1 | .1 | 3.2 | 2.0 |
| 25.... | 2.2 | 6.8 | 4.7 | 5.0 | 5.6 | 6.0 | 12 | 1.0 | .1 | .2 | 3.7 | 2.0 |
| 26.... | 2.2 | 7.0 | 4.6 | 5.2 | 5.6 | 6.0 | 12 | 1.0 | .1 | .8 | 3.2 | 3.2 |
| 27.... | 2.5 | 7.0 | 4.5 | 5.4 | 5.8 | 6.0 | 7.0 | 1.1 | .1 | 3.2 | 3.2 | 3.4 |
| 28.... | 2.2 | 6.4 | 4.4 | 5.4 | 5.9 | 6.3 | 6.3 | 1.0 | .2 | 4.0 | 2.9 | 2.9 |
| 29.... | 2.2 | 6.0 | 4.5 | 5.3 | 6.0 | 6.3 | 5.1 | 1.0 | .1 | 4.0 | 2.7 | 2.9 |
| 30.... | 2.1 | 5.6 | 4.7 | 5.2 | .... | 6.3 | 6.0 | .9 | .1 | 4.0 | 2.2 | 2.9 |
| 31.... | 2.9 | .... | 4.8 | 5.2 | .... | 6.3 | .... | .6 | .... | 3.7 | 2.2 | .... |
| Total | 68.4 | 154.4 | 155.1 | 148.1 | 152.9 | 177.1 | 274.5 | 115.2 | 4.2 | 27.1 | 81.4 | 76.1 |
| Mean. | 2.21 | 5.15 | 5.00 | 4.78 | 5.27 | 5.71 | 9.15 | 3.72 | .14 | .87 | 2.63 | 2.54 |
| Max.. | 2.9 | 9.0 | 5.8 | 5.4 | 6.0 | 6.3 | 16 | 8.2 | .8 | 4.0 | 3.7 | 3.4 |
| Min.. | 1.0 | 2.3 | 4.4 | 3.9 | 4.8 | 5.1 | 5.1 | .6 | .1 | .1 | 2.0 | 2.0 |
| Acre-ft. | 136 | 306 | 308 | 294 | 303 | 351 | 544 | 228 | 8.3 | 54 | 161 | 151 |

Total run-off for water year 1939-40=2,840 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Correction Table for Vasquez Creek Near Winter Park, Colorado, for Diversions by Moffat Tunnel for Water Year October 1, 1938, to September 30, 1939.

| Month | Runoff in Acre-Feet | Diverted by Moffat Tunnel Acre-Feet | Corrected for Diversion Acre-Feet |
|---|---------------------|-------------------------------------|-----------------------------------|
| October | 547 | 783 | 1330 |
| November | 756 | 0 | 756 |
| December | 556 | 0 | 556 |
| January | 463 | 0 | 463 |
| February | 335 | 0 | 335 |
| March | 473 | 0 | 473 |
| April | 769 | 0 | 769 |
| May | 1540 | 4170 | 5710 |
| June | 956 | 6354 | 7310 |
| July | 167 | 2603 | 2770 |
| August | 209 | 1231 | 1440 |
| September | 95 | 756 | 852 |
| Total run-off for water year 1938-1939..... | 6870 | 15900 | 22760 |

For Water Year October 1, 1939, to September 30, 1940.

| | | | |
|---|------|-------|-------|
| October | 136 | 567 | 703 |
| November | 306 | 175 | 481 |
| December | 308 | 0 | 308 |
| January | 294 | 0 | 294 |
| February | 303 | 0 | 303 |
| March | 351 | 0 | 351 |
| April | 544 | 35 | 579 |
| May | 228 | 2860 | 3090 |
| June | 8.3 | 5570 | 5580 |
| July | 54 | 2790 | 2840 |
| August | 161 | 1170 | 1330 |
| September | 151 | 986 | 1140 |
| Total run-off for water year 1939-40..... | 2840 | 14150 | 17000 |

Discharge of St. Louis Creek Near Fraser, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|-------|-------|-------|-------|------|------|------|------|-------|
| 1.... | 25 | 14 | 16 | 11 | 8.8 | 6.4 | 8.8 | 45 | 186 | 77 | 40 | 20 |
| 2.... | 25 | 14 | 15 | 11 | 8.8 | 6.4 | 9.6 | 49 | 158 | 74 | 36 | 19 |
| 3.... | 25 | 15 | 14 | 11 | 8.8 | 6.4 | 10 | 50 | 158 | 73 | 34 | 18 |
| 4.... | 25 | 16 | 14 | 11 | 8.8 | 6.4 | 11 | 51 | 156 | 70 | 32 | 17 |
| 5.... | 25 | 17 | 15 | 11 | 8.4 | 6.6 | 12 | 56 | 202 | 70 | 30 | 18 |
| 6.... | 25 | 16 | 15 | 11 | 8.0 | 6.8 | 14 | 56 | 200 | 69 | 31 | 22 |
| 7.... | 28 | 15 | 14 | 11 | 7.6 | 6.8 | 12 | 50 | 177 | 66 | 39 | 21 |
| 8.... | 25 | 15 | 14 | 12 | 7.6 | 6.8 | 11 | 49 | 156 | 62 | 31 | 22 |
| 9.... | 25 | 14 | 14 | 12 | 8.0 | 6.4 | 11 | 57 | 145 | 61 | 29 | 19 |
| 10.... | 25 | 13 | 14 | 12 | 8.0 | 6.4 | 11 | 64 | 140 | 58 | 28 | 19 |
| 11.... | 24 | 13 | 14 | 12 | 8.8 | 6.8 | 11 | 66 | 138 | 57 | 27 | 20 |
| 12.... | 22 | 14 | 13 | 11 | 8.4 | 8.0 | 11 | 66 | 145 | 55 | 25 | 19 |
| 13.... | 22 | 15 | 13 | 11 | 9.2 | 7.6 | 12 | 63 | 156 | 53 | 25 | 18 |
| 14.... | 22 | 16 | 12 | 11 | 8.4 | 7.6 | 13 | 69 | 169 | 52 | 25 | 19 |
| 15.... | 22 | 17 | 12 | 12 | 8.4 | 6.8 | 12 | 79 | 177 | 53 | 25 | 17 |
| 16.... | 21 | 17 | 12 | 11 | 8.0 | 6.8 | 12 | 84 | 169 | 51 | 24 | 17 |
| 17.... | 21 | 17 | 13 | 11 | 8.8 | 6.8 | 14 | 76 | 158 | 50 | 22 | 17 |
| 18.... | 19 | 16 | 13 | 10 | 8.4 | 8.0 | 16 | 79 | 138 | 48 | 22 | 16 |
| 19.... | 20 | 16 | 13 | 10 | 8.4 | 8.0 | 12 | 97 | 123 | 45 | 22 | 16 |
| 20.... | 20 | 15 | 13 | 12 | 8.0 | 10 | 10 | 108 | 108 | 44 | 22 | 15 |
| 21.... | 21 | 15 | 13 | 10 | 7.6 | 8.8 | 12 | 114 | 103 | 43 | 22 | 16 |
| 22.... | 20 | 14 | 13 | 9.6 | 7.6 | 8.4 | 20 | 130 | 95 | 41 | 21 | 16 |
| 23.... | 20 | 14 | 12 | 9.6 | 7.6 | 8.4 | 22 | 133 | 93 | 40 | 21 | 17 |
| 24.... | 17 | 13 | 12 | 9.6 | 7.6 | 8.8 | 20 | 128 | 95 | 38 | 21 | 22 |
| 25.... | 17 | 13 | 12 | 9.6 | 7.2 | 8.4 | 20 | 114 | 93 | 37 | 22 | 24 |
| 26.... | 16 | 14 | 12 | 9.6 | 7.2 | 7.6 | 21 | 97 | 88 | 37 | 21 | 22 |
| 27.... | 15 | 14 | 10 | 9.6 | 7.2 | 8.0 | 26 | 90 | 86 | 42 | 21 | 21 |
| 28.... | 14 | 15 | 12 | 9.2 | 7.2 | 8.0 | 37 | 97 | 86 | 39 | 23 | 20 |
| 29.... | 15 | 16 | 11 | 9.2 | .... | 9.2 | 45 | 114 | 84 | 35 | 23 | 22 |
| 30.... | 14 | 16 | 11 | 8.8 | .... | 8.8 | 45 | 128 | 82 | 46 | 25 | 19 |
| 31.... | 14 | .... | 11 | 9.2 | .... | 7.6 | .... | 163 | .... | 45 | 22 | .... |
| Total | 649 | 449 | 402 | 328.0 | 226.8 | 233.8 | 501.4 | 2622 | 4094 | 1631 | 811 | 568 |
| Mean. | 20.9 | 15.0 | 13.0 | 10.6 | 8.10 | 7.54 | 16.7 | 84.6 | 136 | 52.6 | 26.2 | 18.9 |
| Max.. | 28 | 17 | 16 | 12 | 9.2 | 10 | 45 | 163 | 202 | 77 | 40 | 24 |
| Min.. | 14 | 13 | 10 | 8.8 | 7.2 | 6.4 | 8.8 | 45 | 82 | 35 | 21 | 15 |
| Acre-ft. | 1290 | 891 | 797 | 651 | 450 | 464 | 995 | 5200 | 8120 | 3240 | 1610 | 1130 |

Total run-off for water year 1938-39=24,840 acre-feet.

Discharge of St. Louis Creek Near Fraser, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|-------|
| 1.... | 18 | 13 | 7.8 | 8.0 | 7.8 | 8.0 | 9.5 | 14 | 122 | 71 | 25 | 16 |
| 2.... | 17 | 14 | 7.8 | 8.5 | 8.0 | 8.0 | 9.0 | 20 | 134 | 75 | 24 | 13 |
| 3.... | 17 | 13 | 7.0 | 9.0 | 8.0 | 8.0 | 8.5 | 28 | 141 | 81 | 23 | 19 |
| 4.... | 18 | 13 | 6.8 | 9.0 | 8.0 | 6.6 | 8.0 | 33 | 136 | 79 | 22 | 24 |
| 5.... | 19 | 14 | 6.4 | 9.0 | 8.0 | 6.8 | 8.5 | 35 | 139 | 69 | 22 | 18 |
| 6.... | 19 | 14 | 6.2 | 8.5 | 8.0 | 7.5 | 8.5 | 37 | 118 | 65 | 22 | 17 |
| 7.... | 17 | 13 | 6.4 | 8.0 | 8.0 | 8.0 | 8.5 | 38 | 102 | 62 | 21 | 18 |
| 8.... | 18 | 13 | 6.8 | 7.5 | 8.0 | 8.5 | 7.5 | 37 | 96 | 58 | 20 | 17 |
| 9.... | 19 | 14 | 7.2 | 6.4 | 8.0 | 8.0 | 7.5 | 41 | 89 | 56 | 20 | 18 |
| 10.... | 17 | 14 | 7.8 | 6.4 | 7.5 | 8.0 | 7.5 | 46 | 87 | 53 | 20 | 22 |
| 11.... | 17 | 14 | 7.2 | 6.7 | 7.0 | 8.0 | 6.7 | 52 | 91 | 53 | 20 | 18 |
| 12.... | 17 | 14 | 7.0 | 7.0 | 7.5 | 7.4 | 6.0 | 55 | 96 | 52 | 17 | 16 |
| 13.... | 17 | 14 | 7.0 | 7.0 | 7.5 | 7.0 | 8.5 | 58 | 107 | 50 | 17 | 18 |
| 14.... | 17 | 13 | 7.0 | 7.5 | 7.5 | 7.0 | 11 | 47 | 118 | 47 | 16 | 18 |
| 15.... | 17 | 13 | 7.2 | 7.5 | 8.0 | 7.0 | 11 | 50 | 113 | 46 | 16 | 17 |
| 16.... | 16 | 12 | 7.2 | 7.0 | 8.0 | 7.6 | 10 | 54 | 111 | 47 | 16 | 17 |
| 17.... | 16 | 11 | 7.0 | 7.0 | 7.6 | 8.5 | 9.5 | 55 | 113 | 52 | 16 | 17 |
| 18.... | 15 | 11 | 6.8 | 6.8 | 8.0 | 8.5 | 12 | 46 | 109 | 56 | 14 | 16 |
| 19.... | 14 | 11 | 6.6 | 6.6 | 6.7 | 8.5 | 14 | 45 | 109 | 50 | 16 | 19 |
| 20.... | 14 | 11 | 6.6 | 7.5 | 6.7 | 8.0 | 17 | 46 | 115 | 44 | 19 | 24 |
| 21.... | 14 | 10 | 6.6 | 7.5 | 6.7 | 7.5 | 17 | 45 | 118 | 42 | 21 | 20 |
| 22.... | 14 | 10 | 6.6 | 7.5 | 7.0 | 7.5 | 15 | 43 | 107 | 39 | 22 | 19 |
| 23.... | 13 | 9.5 | 6.6 | 7.5 | 7.0 | 8.5 | 15 | 43 | 100 | 38 | 18 | 18 |
| 24.... | 14 | 9.2 | 6.8 | 7.5 | 7.0 | 8.0 | 16 | 45 | 93 | 36 | 23 | 18 |
| 25.... | 13 | 9.2 | 6.8 | 9.0 | 7.0 | 9.0 | 16 | 47 | 89 | 34 | 26 | 19 |
| 26.... | 13 | 9.2 | 6.8 | 9.0 | 7.0 | 8.0 | 19 | 52 | 86 | 32 | 25 | 30 |
| 27.... | 12 | 9.0 | 6.8 | 9.0 | 7.5 | 8.0 | 23 | 62 | 79 | 30 | 24 | 29 |
| 28.... | 11 | 8.8 | 7.8 | 9.0 | 7.5 | 7.5 | 19 | 63 | 78 | 30 | 21 | 26 |
| 29.... | 14 | 8.4 | 6.8 | 8.6 | 8.5 | 7.5 | 15 | 74 | 75 | 30 | 19 | 24 |
| 30.... | 11 | 8.0 | 6.7 | 8.2 | .... | 7.5 | 14 | 84 | 72 | 29 | 18 | 24 |
| 31.... | 13 | .... | 7.5 | 7.8 | .... | 8.5 | .... | 100 | .... | 27 | 17 | .... |
| Total | 481 | 350.3 | 214.8 | 241.5 | 219.0 | 242.4 | 356.7 | 1495 | 3143 | 1533 | 621 | 591 |
| Mean. | 15.5 | 11.7 | 6.93 | 7.79 | 7.55 | 7.82 | 11.9 | 48.2 | 105 | 49.5 | 20.0 | 19.7 |
| Max.. | 19 | 14 | 7.8 | 9.0 | 8.5 | 9.0 | 23 | 100 | 141 | 81 | 26 | 30 |
| Min.. | 11 | 8.0 | 6.2 | 6.4 | 6.7 | 6.6 | 6.0 | 14 | 72 | 27 | 14 | 13 |
| Acre-ft. | 954 | 695 | 426 | 479 | 434 | 481 | 708 | 2970 | 6230 | 3040 | 1230 | 1170 |

Total run-off for water year 1939-40=18,820 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ranch Creek Above Forks, Near Fraser, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|------|-------|------|-------|
| 1.... | 2.7 | .... | .... | .... | .... | .... | 0.4 | 5.5 | 29 | 12 | 4.1 | 1.6 |
| 2.... | 3.1 | .... | .... | .... | .... | .... | 0.4 | 7.1 | 28 | 12 | 4.0 | 1.6 |
| 3.... | 3.1 | .... | .... | .... | .... | .... | 0.4 | 7.3 | 28 | 11 | 3.7 | 1.6 |
| 4.... | 2.8 | .... | .... | .... | .... | .... | 0.5 | 6.7 | 30 | 11 | 3.5 | 1.6 |
| 5.... | 2.8 | .... | .... | .... | .... | .... | 0.6 | 7.7 | 31 | 10 | 3.3 | 1.6 |
| 6.... | 3.2 | .... | .... | .... | .... | .... | 0.5 | 7.3 | 30 | 9.5 | 3.6 | 1.7 |
| 7.... | 3.4 | .... | .... | .... | .... | .... | 0.5 | 5.5 | 29 | 9.3 | 3.7 | 1.8 |
| 8.... | 3.2 | .... | .... | .... | .... | .... | 0.5 | 5.3 | 27 | 8.8 | 3.4 | 1.8 |
| 9.... | 3.2 | .... | .... | .... | .... | .... | 0.5 | 6.9 | 26 | 8.4 | 3.2 | 1.6 |
| 10.... | 3.2 | .... | .... | .... | .... | .... | 0.4 | 8.4 | 26 | 8.2 | 3.0 | 1.6 |
| 11.... | 3.1 | .... | .... | .... | .... | .... | 0.4 | 7.3 | 25 | 7.3 | 2.9 | 1.6 |
| 12.... | 3.1 | .... | .... | .... | .... | .... | 0.5 | 6.9 | 25 | 7.5 | 2.7 | 1.6 |
| 13.... | 3.0 | .... | .... | .... | .... | .... | 0.5 | 6.9 | 26 | 7.1 | 2.6 | 1.6 |
| 14.... | 3.0 | .... | .... | .... | .... | .... | 0.5 | 8.8 | 26 | 6.3 | 2.4 | 1.6 |
| 15.... | 2.8 | .... | .... | .... | .... | .... | 0.5 | 11 | 26 | 6.5 | 2.3 | 1.6 |
| 16.... | 2.7 | .... | .... | .... | .... | .... | 0.4 | 12 | 25 | 6.1 | 2.2 | 1.6 |
| 17.... | 2.8 | .... | .... | .... | .... | .... | 0.4 | 16 | 24 | 5.8 | 1.8 | 1.6 |
| 18.... | 2.7 | .... | .... | .... | .... | .... | 0.5 | 18 | 23 | 5.4 | 1.8 | 1.6 |
| 19.... | 2.5 | .... | .... | .... | .... | .... | 0.4 | 19 | 21 | 5.0 | 1.8 | 1.6 |
| 20.... | 2.3 | .... | .... | .... | .... | .... | 0.4 | 18 | 20 | 4.8 | 1.8 | 1.6 |
| 21.... | 2.4 | .... | .... | .... | .... | .... | 0.6 | 19 | 20 | 4.6 | 1.7 | 1.6 |
| 22.... | 2.4 | .... | .... | .... | .... | .... | 0.8 | 22 | 17 | 4.6 | 1.6 | 1.6 |
| 23.... | 2.4 | .... | .... | .... | .... | .... | 0.8 | 23 | 16 | 4.3 | 1.6 | 1.6 |
| 24.... | 2.4 | .... | .... | .... | .... | .... | 0.7 | 22 | 16 | 4.2 | 1.7 | 1.6 |
| 25.... | 2.4 | .... | .... | .... | .... | .... | 0.7 | 22 | 15 | 4.2 | 1.7 | 1.6 |
| 26.... | 2.2 | .... | .... | .... | .... | .... | 0.9 | 20 | 14 | 4.2 | 1.6 | 1.6 |
| 27.... | 2.0 | .... | .... | .... | .... | .... | 1.6 | 20 | 14 | 4.1 | 1.6 | 1.6 |
| 28.... | 2.0 | .... | .... | .... | .... | .... | 2.5 | 21 | 14 | 4.0 | 1.6 | 1.6 |
| 29.... | 2.0 | .... | .... | .... | .... | .... | 3.2 | 23 | 14 | 4.0 | 1.7 | 1.6 |
| 30.... | 1.9 | .... | .... | .... | .... | .... | 3.7 | 25 | 13 | 4.1 | 1.7 | 1.7 |
| 31.... | 2.0 | .... | .... | .... | .... | .... | .... | 28 | .... | 4.2 | 1.6 | .... |
| Total | 82.8 | 30.0 | 24.8 | 18.6 | 11.2 | 12.4 | 24.7 | 436.6 | 678 | 208.5 | 75.9 | 48.6 |
| Mean.. | 2.67 | 1.0 | 0.8 | 0.6 | 0.4 | 0.4 | 0.82 | 14.1 | 22.6 | 6.73 | 2.45 | 1.62 |
| Max... | 3.4 | .... | .... | .... | .... | .... | 3.7 | 28 | 31 | 12 | 4.1 | 1.8 |
| Min... | 1.9 | .... | .... | .... | .... | .... | 0.4 | 5.3 | 13 | 4.0 | 1.6 | 1.6 |
| Acre-ft. | 164 | 60 | 49 | 37 | 22 | 25 | 49 | 866 | 1340 | 414 | 151 | 96 |

Total run-off for water year 1938-39=3,270 acre-feet.

Discharge of Ranch Creek Above Forks Near Fraser, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|---------|-------|------|-------|------|-------|
| 1.... | 1.8 | 1.3 | .... | .... | .... | .... | .... | 2.3 | 28 | 14 | 3.4 | 2.8 |
| 2.... | 1.8 | 1.3 | .... | .... | .... | .... | .... | 2.6 | 30 | 14 | 3.3 | 2.8 |
| 3.... | 1.8 | 1.3 | .... | .... | .... | .... | .... | 3.4 | 30 | 13 | 3.1 | 3.0 |
| 4.... | 1.7 | .... | .... | .... | .... | .... | .... | 4.3 | 32 | 12 | 3.0 | 3.0 |
| 5.... | 1.7 | .... | .... | .... | .... | .... | .... | 4.5 | 33 | 12 | 3.0 | 2.8 |
| 6.... | 1.6 | .... | .... | .... | .... | .... | .... | 4.9 | 28 | 11 | 3.0 | 2.6 |
| 7.... | 1.4 | .... | .... | .... | .... | .... | .... | 5.4 | 24 | 10 | 3.0 | 2.5 |
| 8.... | 1.6 | .... | .... | .... | .... | .... | .... | 5.6 | 21 | 10 | 3.0 | 2.5 |
| 9.... | 1.6 | .... | .... | .... | .... | .... | .... | 6.1 | 18 | 9.6 | 3.0 | 2.8 |
| 10.... | 1.6 | .... | .... | .... | .... | .... | .... | 7.5 | 18 | 9.3 | 3.0 | 3.1 |
| 11.... | 1.6 | .... | .... | .... | .... | .... | .... | 9.6 | 18 | 8.9 | 3.0 | 2.8 |
| 12.... | 1.6 | .... | .... | .... | .... | .... | .... | 10 | 19 | 8.3 | 3.0 | 2.6 |
| 13.... | 1.6 | .... | .... | .... | .... | .... | .... | 9.3 | 24 | 8.0 | 2.8 | 2.8 |
| 14.... | 1.6 | .... | .... | .... | .... | .... | .... | 8.0 | 29 | 7.5 | 2.6 | 2.8 |
| 15.... | 1.6 | .... | .... | .... | .... | .... | .... | 8.3 | 29 | 6.9 | 2.6 | 2.6 |
| 16.... | 1.6 | .... | .... | .... | .... | .... | .... | 10 | 29 | 7.2 | 2.6 | 2.6 |
| 17.... | 1.6 | .... | .... | .... | .... | .... | .... | 11 | 27 | 9.6 | 2.6 | 2.6 |
| 18.... | 1.6 | .... | .... | .... | .... | .... | .... | 12 | 25 | 8.9 | 2.6 | 2.6 |
| 19.... | 1.4 | .... | .... | .... | .... | .... | .... | 8.9 | 24 | 8.0 | 2.6 | 2.6 |
| 20.... | 1.4 | .... | .... | .... | .... | .... | .... | 8.6 | 24 | 7.2 | 2.8 | 2.6 |
| 21.... | 1.3 | .... | .... | .... | .... | .... | Apr. 23 | 8.0 | 24 | 6.4 | 2.8 | 2.6 |
| 22.... | 1.3 | .... | .... | .... | .... | .... | to 30 | 7.7 | 21 | 6.1 | 3.0 | 2.6 |
| 23.... | 1.3 | .... | .... | .... | .... | .... | 2.6 | 8.3 | 20 | 5.8 | 2.6 | 2.6 |
| 24.... | 1.3 | .... | .... | .... | .... | .... | 2.3 | 8.3 | 18 | 5.4 | 3.4 | 2.5 |
| 25.... | 1.2 | .... | .... | .... | .... | .... | 2.3 | 8.6 | 17 | 5.1 | 4.5 | 2.5 |
| 26.... | 1.2 | .... | .... | .... | .... | .... | 2.8 | 10 | 16 | 4.9 | 3.6 | 3.3 |
| 27.... | 1.3 | .... | .... | .... | .... | .... | 3.3 | 12 | 16 | 5.1 | 3.6 | 3.1 |
| 28.... | 1.1 | .... | .... | .... | .... | .... | 2.8 | 13 | 15 | 4.7 | 3.3 | 3.1 |
| 29.... | 1.4 | .... | .... | .... | .... | .... | 2.3 | 16 | 14 | 4.5 | 3.1 | 3.1 |
| 30.... | 1.1 | .... | .... | .... | .... | .... | 2.3 | 19 | 13 | 4.0 | 3.0 | 3.1 |
| 31.... | 1.2 | .... | .... | .... | .... | .... | .... | 25 | .... | 3.8 | 2.8 | .... |
| Total | 45.9 | .... | .... | .... | .... | .... | 20.7 | 278.2 | 684 | 251.2 | 93.7 | 83.0 |
| Mean.. | 1.48 | .... | .... | .... | .... | .... | 2.59 | 8.97 | 22.8 | 8.10 | 3.02 | 2.77 |
| Max... | 1.8 | .... | .... | .... | .... | .... | 3.3 | 25 | 33 | 14 | 4.5 | 3.3 |
| Min... | 1.1 | .... | .... | .... | .... | .... | 2.3 | 2.3 | 13 | 3.8 | 2.6 | 2.5 |
| Acre-ft. | 91 | .... | .... | .... | .... | .... | 41 | 552 | 1360 | 498 | 186 | 165 |

Total run-off for period=2,893 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ranch Creek Near Fraser, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|
| 1.... | 9.8 | 6.5 | 6.7 | 4.8 | 3.8 | 3.6 | 5.0 | 31 | 129 | 31 | 9.2 | 4.6 |
| 2.... | 10 | 6.3 | 6.7 | 4.8 | 3.8 | 3.6 | 5.2 | 37 | 113 | 29 | 9.0 | 4.9 |
| 3.... | 10 | 8.5 | 6.5 | 4.8 | 3.9 | 3.6 | 5.5 | 38 | 112 | 27 | 9.0 | 4.6 |
| 4.... | 9.8 | 8.2 | 6.3 | 4.6 | 4.0 | 3.6 | 6.1 | 29 | 123 | 26 | 7.8 | 4.4 |
| 5.... | 9.5 | 9.5 | 6.5 | 4.6 | 3.9 | 3.6 | 6.9 | 40 | 132 | 25 | 7.8 | 4.6 |
| 6.... | 10 | 7.8 | 6.5 | 4.4 | 3.9 | 3.6 | 6.3 | 39 | 127 | 23 | 8.8 | 5.2 |
| 7.... | 11 | 7.5 | 6.5 | 4.3 | 3.8 | 3.6 | 5.7 | 36 | 108 | 21 | 9.8 | 5.4 |
| 8.... | 11 | 8.0 | 6.5 | 4.3 | 3.8 | 3.7 | 5.7 | 38 | 97 | 20 | 8.0 | 5.5 |
| 9.... | 10 | 8.5 | 6.5 | 4.3 | 3.9 | 3.6 | 5.7 | 43 | 92 | 19 | 7.3 | 5.0 |
| 10.... | 10 | 7.8 | 6.5 | 4.3 | 3.9 | 3.5 | 5.5 | 47 | 89 | 19 | 7.1 | 4.8 |
| 11.... | 9.8 | 6.9 | 6.5 | 4.2 | 3.9 | 3.5 | 5.4 | 47 | 86 | 17 | 6.7 | 4.9 |
| 12.... | 9.2 | 6.9 | 6.3 | 4.2 | 3.9 | 3.5 | 5.9 | 47 | 86 | 16 | 6.3 | 4.4 |
| 13.... | 9.2 | 7.8 | 6.3 | 4.0 | 4.0 | 3.6 | 6.5 | 47 | 85 | 16 | 6.3 | 4.4 |
| 14.... | 9.0 | 8.2 | 6.3 | 4.0 | 3.9 | 3.6 | 6.7 | 55 | 84 | 16 | 6.1 | 4.8 |
| 15.... | 8.8 | 8.5 | 6.1 | 4.0 | 3.8 | 3.6 | 6.1 | 65 | 85 | 17 | 5.9 | 4.3 |
| 16.... | 8.5 | 9.0 | 5.9 | 4.0 | 3.8 | 3.6 | 5.4 | 67 | 84 | 16 | 5.5 | 4.0 |
| 17.... | 8.8 | 8.8 | 5.9 | 4.2 | 3.8 | 3.6 | 5.4 | 68 | 80 | 14 | 5.4 | 3.9 |
| 18.... | 8.5 | 8.2 | 5.5 | 4.0 | 3.8 | 3.6 | 5.7 | 77 | 75 | 13 | 5.2 | 3.9 |
| 19.... | 8.8 | 8.0 | 5.5 | 4.0 | 3.8 | 3.7 | 5.5 | 87 | 66 | 12 | 4.9 | 3.8 |
| 20.... | 9.0 | 8.0 | 5.5 | 4.0 | 3.8 | 3.8 | 5.4 | 93 | 59 | 12 | 4.9 | 3.7 |
| 21.... | 8.5 | 7.8 | 5.4 | 4.0 | 3.9 | 4.3 | 6.9 | 96 | 59 | 11 | 4.9 | 3.6 |
| 22.... | 8.8 | 7.3 | 5.4 | 4.0 | 3.9 | 4.4 | 10 | 107 | 53 | 11 | 4.8 | 3.7 |
| 23.... | 9.0 | 7.3 | 5.4 | 4.0 | 3.8 | 5.2 | 10 | 121 | 50 | 10 | 4.6 | 3.9 |
| 24.... | 8.0 | 7.3 | 5.4 | 3.9 | 3.8 | 5.4 | 9.2 | 118 | 49 | 10 | 4.6 | 4.6 |
| 25.... | 8.0 | 7.5 | 5.2 | 3.9 | 3.7 | 5.2 | 8.8 | 103 | 46 | 9.8 | 4.9 | 4.3 |
| 26.... | 7.3 | 7.3 | 5.2 | 4.0 | 3.6 | 6.7 | 10 | 88 | 42 | 10 | 4.6 | 4.4 |
| 27.... | 6.7 | 7.1 | 5.2 | 4.2 | 3.6 | 5.7 | 14 | 81 | 39 | 10 | 4.6 | 4.3 |
| 28.... | 6.7 | 7.1 | 4.9 | 4.2 | 3.6 | 5.9 | 21 | 83 | 37 | 9.5 | 4.8 | 4.2 |
| 29.... | 6.5 | 7.1 | 4.9 | 4.0 | .... | 6.1 | 26 | 96 | 36 | 9.2 | 4.8 | 4.9 |
| 30.... | 6.3 | 7.1 | 4.9 | 4.0 | .... | 5.0 | 26 | 113 | 34 | 9.5 | 4.9 | 4.2 |
| 31.... | 6.5 | .... | 4.8 | 3.9 | .... | 4.9 | .... | 132 | .... | 9.8 | 4.8 | .... |
| Total | 273.0 | 231.8 | 181.7 | 129.9 | 107.1 | 130.9 | 257.5 | 2179 | 2357 | 498.8 | 193.3 | 133.2 |
| Mean. | 8.81 | 7.73 | 5.86 | 4.19 | 3.82 | 4.22 | 8.58 | 70.3 | 78.6 | 16.1 | 6.24 | 4.44 |
| Max.. | 11 | 9.5 | 6.7 | 4.8 | 4.0 | 6.7 | 26 | 132 | 132 | 31 | 9.8 | 5.5 |
| Min.. | 6.3 | 6.3 | 4.8 | 3.9 | 3.6 | 3.5 | 5.0 | 31 | 34 | 9.2 | 4.6 | 3.6 |
| Acre-ft. | 541 | 460 | 360 | 258 | 212 | 260 | 511 | 4320 | 4680 | 959 | 383 | 264 |

Total run-off for water year 1938-39=13,240 acre-feet.

Discharge of Ranch Creek Near Fraser, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|------|------|-------|------|------|------|-------|-------|
| 1.... | 4.2 | 5.2 | 4.4 | 3.7 | 2.9 | 2.8 | 4.2 | 11 | 97 | 29 | 10 | 6.7 |
| 2.... | 4.2 | 4.9 | 4.2 | 3.8 | 2.9 | 2.8 | 4.3 | 13 | 106 | 33 | 10 | 6.5 |
| 3.... | 4.2 | 5.0 | 4.2 | 3.9 | 2.9 | 2.8 | 4.0 | 18 | 108 | 29 | 9.8 | 6.7 |
| 4.... | 4.8 | 4.8 | 4.2 | 3.8 | 2.9 | 2.8 | 4.2 | 22 | 108 | 26 | 9.5 | 7.8 |
| 5.... | 4.9 | 4.8 | 3.9 | 3.7 | 2.9 | 2.8 | 4.3 | 24 | 108 | 25 | 10 | 6.7 |
| 6.... | 5.0 | 4.9 | 3.8 | 3.8 | 2.9 | 2.8 | 4.3 | 28 | 97 | 24 | 9.2 | 6.5 |
| 7.... | 4.9 | 5.0 | 3.8 | 3.7 | 2.9 | 2.8 | 4.2 | 32 | 84 | 20 | 9.2 | 7.1 |
| 8.... | 5.0 | 4.5 | 3.9 | 3.6 | 2.8 | 2.8 | 4.2 | 34 | 76 | 19 | 9.0 | 6.9 |
| 9.... | 5.7 | 4.1 | 4.0 | 3.5 | 2.8 | 2.8 | 4.2 | 38 | 66 | 18 | 8.2 | 8.0 |
| 10.... | 5.4 | 4.0 | 4.0 | 3.4 | 2.8 | 2.9 | 4.2 | 47 | 65 | 18 | 8.2 | 10 |
| 11.... | 5.5 | 3.9 | 3.9 | 3.3 | 2.8 | 3.0 | 4.2 | 55 | 64 | 17 | 8.0 | 8.0 |
| 12.... | 5.4 | 4.1 | 3.8 | 3.3 | 2.8 | 2.9 | 4.2 | 58 | 66 | 16 | 7.5 | 7.3 |
| 13.... | 5.2 | 4.1 | 3.7 | 3.3 | 2.8 | 2.9 | 4.6 | 57 | 75 | 15 | 7.3 | 7.8 |
| 14.... | 5.2 | 4.1 | 3.7 | 3.4 | 2.8 | 2.9 | 6.1 | 53 | 84 | 16 | 7.1 | 8.0 |
| 15.... | 5.0 | 4.0 | 3.7 | 3.4 | 2.8 | 2.9 | 6.9 | 55 | 81 | 14 | 7.1 | 7.5 |
| 16.... | 4.9 | 3.9 | 3.8 | 3.3 | 2.8 | 2.9 | 6.9 | 58 | 79 | 14 | 6.7 | 7.1 |
| 17.... | 4.8 | 3.8 | 3.9 | 3.3 | 2.8 | 3.0 | 5.4 | 63 | 74 | 21 | 6.7 | 7.3 |
| 18.... | 4.8 | 3.7 | 3.8 | 3.3 | 2.8 | 2.9 | 6.5 | 56 | 67 | 26 | 6.3 | 7.8 |
| 19.... | 4.8 | 3.7 | 3.8 | 3.3 | 2.8 | 2.9 | 8.5 | 53 | 65 | 22 | 6.7 | 8.5 |
| 20.... | 4.6 | 3.8 | 3.7 | 3.2 | 2.8 | 2.9 | 11 | 45 | 63 | 19 | 7.1 | 8.5 |
| 21.... | 4.4 | 3.9 | 3.7 | 3.2 | 2.8 | 3.0 | 12 | 39 | 69 | 17 | 8.5 | 7.8 |
| 22.... | 4.4 | 3.8 | 3.7 | 3.1 | 2.8 | 3.0 | 11 | 36 | 59 | 16 | 9.5 | 8.8 |
| 23.... | 4.4 | 3.8 | 3.7 | 3.0 | 2.8 | 3.1 | 11 | 36 | 53 | 16 | 6.9 | 8.0 |
| 24.... | 4.4 | 3.9 | 3.7 | 3.0 | 2.8 | 3.2 | 11 | 36 | 48 | 15 | 8.2 | 7.3 |
| 25.... | 4.3 | 3.8 | 3.7 | 3.0 | 2.8 | 3.5 | 12 | 39 | 44 | 14 | 12 | 7.3 |
| 26.... | 4.4 | 4.2 | 3.7 | 3.0 | 2.8 | 3.4 | 14 | 44 | 41 | 14 | 10 | 9.5 |
| 27.... | 4.6 | 4.2 | 3.6 | 3.0 | 2.8 | 3.4 | 18 | 52 | 37 | 14 | 10 | 9.8 |
| 28.... | 4.0 | 4.0 | 3.6 | 3.1 | 2.8 | 3.4 | 15 | 54 | 34 | 13 | 9.0 | 8.5 |
| 29.... | 5.4 | 3.9 | 3.6 | 3.1 | 2.8 | 3.3 | 12 | 61 | 31 | 12 | 7.8 | 9.0 |
| 30.... | 4.0 | 4.2 | 3.7 | 3.0 | .... | 3.4 | 11 | 70 | 29 | 12 | 7.3 | 9.2 |
| 31.... | 4.5 | .... | 3.7 | 3.0 | .... | 3.8 | .... | 84 | .... | 11 | 6.7 | .... |
| Total | 147.3 | 126.0 | 118.6 | 103.5 | 81.9 | 93.8 | 233.4 | 1371 | 2078 | 575 | 259.5 | 235.9 |
| Mean. | 4.75 | 4.20 | 3.83 | 3.34 | 2.82 | 3.03 | 7.78 | 44.2 | 69.3 | 18.5 | 8.37 | 7.86 |
| Max.. | 5.7 | 5.2 | 4.4 | 3.9 | 2.9 | 3.8 | 18 | 84 | 108 | 33 | 12 | 10 |
| Min.. | 4.0 | 3.7 | 3.6 | 3.0 | 2.8 | 2.8 | 4.0 | 11 | 29 | 11 | 6.3 | 6.5 |
| Acre-ft. | 292 | 250 | 235 | 205 | 162 | 186 | 463 | 2720 | 4120 | 1140 | 515 | 468 |

Total run-off for water year 1939-40=10,760 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ranch Creek Near Tabernash, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|
| 1.... | 15 | 9.0 | 11 | 10 | 9.0 | 6.5 | 10 | 88 | 258 | 44 | 14 | 6.9 |
| 2.... | 16 | 8.5 | 11 | 10 | 9.0 | 6.5 | 12 | 111 | 218 | 41 | 11 | 6.9 |
| 3.... | 17 | 12 | 11 | 10 | 7.7 | 6.5 | 15 | 118 | 210 | 40 | 11 | 6.3 |
| 4.... | 16 | 11 | 11 | 10 | 8.8 | 6.5 | 17 | 115 | 224 | 36 | 9.2 | 6.0 |
| 5.... | 16 | 13 | 12 | 8.8 | 9.0 | 6.5 | 18 | 125 | 234 | 35 | 9.6 | 6.0 |
| 6.... | 18 | 11 | 10 | 8.8 | 9.0 | 6.3 | 17 | 127 | 218 | 32 | 11 | 7.7 |
| 7.... | 22 | 10 | 10 | 8.1 | 9.5 | 6.3 | 16 | 102 | 194 | 27 | 18 | 8.8 |
| 8.... | 20 | 11 | 10 | 8.5 | 9.0 | 6.5 | 20 | 99 | 175 | 27 | 13 | 8.8 |
| 9.... | 18 | 12 | 12 | 10 | 9.0 | 6.5 | 19 | 115 | 166 | 25 | 11 | 8.1 |
| 10.... | 19 | 10 | 11 | 10 | 9.0 | 6.9 | 22 | 128 | 161 | 23 | 9.6 | 6.9 |
| 11.... | 18 | 9.6 | 10 | 9.6 | 9.2 | 7.3 | 24 | 122 | 152 | 21 | 8.8 | 7.3 |
| 12.... | 17 | 10 | 9.0 | 9.6 | 9.2 | 7.3 | 26 | 127 | 144 | 20 | 8.5 | 7.7 |
| 13.... | 16 | 11 | 8.0 | 9.2 | 9.2 | 8.1 | 31 | 123 | 144 | 19 | 8.1 | 6.5 |
| 14.... | 16 | 11 | 7.5 | 7.8 | 9.6 | 8.8 | 33 | 141 | 144 | 18 | 7.7 | 7.3 |
| 15.... | 16 | 12 | 8.5 | 9.2 | 9.2 | 6.9 | 27 | 168 | 144 | 18 | 7.3 | 6.5 |
| 16.... | 15 | 13 | 9.0 | 8.5 | 9.2 | 6.9 | 23 | 170 | 135 | 20 | 6.5 | 6.3 |
| 17.... | 15 | 12 | 9.5 | 7.7 | 8.8 | 6.9 | 21 | 168 | 123 | 17 | 5.8 | 4.9 |
| 18.... | 14 | 12 | 9.5 | 7.2 | 8.1 | 7.3 | 22 | 179 | 108 | 16 | 5.8 | 4.9 |
| 19.... | 15 | 11 | 9.5 | 7.8 | 8.4 | 8.1 | 22 | 198 | 96 | 14 | 4.9 | 4.9 |
| 20.... | 13 | 12 | 9.5 | 8.0 | 8.1 | 8.0 | 22 | 208 | 86 | 13 | 5.1 | 4.7 |
| 21.... | 14 | 11 | 9.0 | 8.8 | 8.4 | 8.0 | 28 | 210 | 88 | 12 | 5.8 | 4.4 |
| 22.... | 13 | 11 | 8.5 | 8.5 | 7.7 | 9.0 | 42 | 226 | 79 | 12 | 4.9 | 4.4 |
| 23.... | 12 | 9.5 | 8.0 | 8.0 | 7.3 | 9.5 | 46 | 240 | 71 | 10 | 5.1 | 5.1 |
| 24.... | 12 | 9.5 | 8.5 | 8.0 | 7.7 | 11 | 38 | 232 | 69 | 11 | 4.7 | 6.3 |
| 25.... | 12 | 9.5 | 9.0 | 8.0 | 7.7 | 12 | 34 | 212 | 71 | 10 | 5.4 | 6.0 |
| 26.... | 13 | 10 | 8.5 | 8.0 | 7.3 | 11 | 35 | 190 | 59 | 12 | 6.0 | 6.6 |
| 27.... | 11 | 10 | 7.5 | 8.0 | 6.9 | 10 | 45 | 164 | 54 | 14 | 6.5 | 6.3 |
| 28.... | 11 | 11 | 8.0 | 8.0 | 6.5 | 10 | 62 | 161 | 51 | 14 | 7.3 | 6.5 |
| 29.... | 10 | 12 | 8.5 | 8.0 | ..... | 9.0 | 79 | 177 | 49 | 12 | 7.7 | 8.1 |
| 30.... | 9.2 | 12 | 9.0 | 9.0 | ..... | 8.0 | 75 | 212 | 47 | 14 | 8.1 | 6.9 |
| 31.... | 9.2 | ..... | 10 | 9.0 | ..... | 8.0 | ..... | 244 | ..... | 16 | 7.3 | ..... |
| Total | 458.4 | 326.6 | 293.5 | 270.1 | 237.5 | 246.1 | 901 | 5000 | 3972 | 643 | 254.7 | 193.4 |
| Mean. | 14.8 | 10.9 | 9.47 | 8.71 | 8.48 | 7.94 | 30.0 | 161 | 132 | 20.7 | 8.22 | 6.45 |
| Max... | 22 | 13 | 12 | 10 | 9.6 | 12 | 79 | 244 | 258 | 44 | 18 | 8.8 |
| Min... | 9.2 | 8.5 | 7.5 | 7.3 | 6.5 | 6.3 | 10 | 88 | 47 | 10 | 4.7 | 4.4 |
| Acre-ft. | 909 | 648 | 582 | 536 | 471 | 488 | 1790 | 9920 | 7880 | 1280 | 505 | 384 |

Total run-off for water year 1938-39=25,390 acre-feet.

Discharge of Ranch Creek Near Tabernash, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|------|-------|
| 1.... | 6.4 | 12 | 12 | 8.2 | 5.2 | 5.2 | 15 | 25 | 204 | 49 | 15 | 15 |
| 2.... | 6.4 | 14 | 12 | 7.7 | 5.1 | 5.2 | 22 | 27 | 210 | 69 | 15 | 15 |
| 3.... | 6.0 | 14 | 12 | 7.8 | 5.0 | 5.1 | 30 | 37 | 204 | 59 | 14 | 15 |
| 4.... | 7.2 | 13 | 11 | 8.0 | 4.8 | 5.0 | 32 | 51 | 196 | 50 | 12 | 18 |
| 5.... | 8.5 | 15 | 11 | 8.0 | 4.5 | 5.0 | 32 | 62 | 196 | 47 | 12 | 15 |
| 6.... | 9.0 | 17 | 11 | 7.6 | 4.3 | 5.1 | 29 | 66 | 191 | 49 | 12 | 15 |
| 7.... | 9.0 | 15 | 11 | 7.2 | 4.5 | 5.2 | 22 | 83 | 160 | 38 | 13 | 15 |
| 8.... | 9.0 | 15 | 11 | 7.4 | 4.5 | 5.4 | 23 | 83 | 147 | 35 | 13 | 15 |
| 9.... | 12 | 17 | 11 | 7.4 | 4.5 | 5.6 | 17 | 100 | 123 | 32 | 13 | 18 |
| 10.... | 10 | 16 | 12 | 7.0 | 4.5 | 5.6 | 19 | 118 | 115 | 30 | 14 | 19 |
| 11.... | 10 | 16 | 12 | 6.7 | 4.2 | 5.4 | 15 | 132 | 115 | 32 | 16 | 17 |
| 12.... | 9.5 | 17 | 11 | 6.4 | 4.3 | 5.2 | 14 | 137 | 116 | 30 | 14 | 15 |
| 13.... | 10 | 15 | 10 | 6.6 | 4.0 | 5.4 | 17 | 140 | 126 | 26 | 14 | 15 |
| 14.... | 10 | 15 | 9.4 | 6.6 | 3.8 | 5.6 | 20 | 120 | 142 | 25 | 14 | 17 |
| 15.... | 10 | 14 | 10 | 5.8 | 4.0 | 5.6 | 22 | 124 | 146 | 24 | 14 | 17 |
| 16.... | 9.5 | 14 | 11 | 5.9 | 3.9 | 5.6 | 25 | 131 | 134 | 25 | 16 | 16 |
| 17.... | 9.5 | 13 | 10 | 6.0 | 3.8 | 5.6 | 26 | 144 | 128 | 34 | 16 | 17 |
| 18.... | 10 | 12 | 9.4 | 5.6 | 3.9 | 5.8 | 31 | 136 | 116 | 59 | 16 | 17 |
| 19.... | 9.5 | 12 | 9.0 | 4.7 | 4.2 | 6.0 | 44 | 121 | 108 | 42 | 16 | 19 |
| 20.... | 7.6 | 12 | 9.6 | 4.9 | 4.3 | 6.2 | 47 | 116 | 110 | 30 | 18 | 19 |
| 21.... | 7.6 | 12 | 9.6 | 4.8 | 4.3 | 6.6 | 44 | 126 | 132 | 26 | 17 | 17 |
| 22.... | 8.0 | 11 | 9.0 | 4.5 | 4.3 | 6.4 | 34 | 104 | 113 | 25 | 15 | 17 |
| 23.... | 9.0 | 11 | 8.4 | 4.8 | 4.5 | 6.3 | 29 | 96 | 91 | 24 | 8.0 | 17 |
| 24.... | 9.5 | 11 | 8.4 | 5.1 | 4.7 | 6.8 | 32 | 99 | 81 | 22 | 14 | 17 |
| 25.... | 10 | 11 | 8.4 | 5.2 | 4.8 | 8.0 | 32 | 107 | 73 | 21 | 22 | 17 |
| 26.... | 12 | 9.8 | 8.4 | 5.2 | 4.8 | 10 | 33 | 121 | 69 | 20 | 18 | 20 |
| 27.... | 12 | 9.8 | 8.2 | 5.2 | 4.9 | 10 | 42 | 144 | 61 | 19 | 19 | 21 |
| 28.... | 10 | 11 | 7.6 | 5.2 | 5.0 | 9.6 | 42 | 136 | 54 | 20 | 18 | 18 |
| 29.... | 13 | 11 | 7.6 | 5.1 | 5.2 | 9.2 | 32 | 146 | 48 | 19 | 15 | 18 |
| 30.... | 10 | 11 | 7.8 | 5.2 | ..... | 9.6 | 29 | 156 | 47 | 19 | 14 | 20 |
| 31.... | 12 | ..... | 8.2 | 5.2 | ..... | 11 | ..... | 182 | ..... | 16 | 15 | ..... |
| Total | 292.2 | 396.6 | 307.0 | 191.0 | 129.8 | 202.3 | 851 | 3370 | 3756 | 1016 | 462 | 511 |
| Mean. | 9.43 | 13.2 | 9.90 | 6.16 | 4.48 | 6.53 | 28.4 | 109 | 125 | 32.8 | 14.9 | 17.0 |
| Max... | 13 | 17 | 12 | 8.2 | 5.2 | 11 | 47 | 182 | 210 | 69 | 22 | 21 |
| Min... | 6.0 | 9.8 | 7.6 | 4.5 | 3.8 | 5.0 | 14 | 25 | 47 | 16 | 8.0 | 15 |
| Acre-ft. | 580 | 787 | 609 | 379 | 257 | 401 | 1690 | 6680 | 7450 | 2020 | 916 | 1010 |

Total run-off for water year 1939-40=22,780 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Fork of Ranch Creek Near Fraser, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|-------|------|-------|
| 1.... | 2.4 | .... | .... | .... | .... | .... | 0.6 | 3.6 | 30 | 6.6 | 2.3 | 1.2 |
| 2.... | 2.7 | .... | .... | .... | .... | .... | 0.6 | 4.3 | 28 | 6.3 | 2.2 | 1.2 |
| 3.... | 2.6 | .... | .... | .... | .... | .... | 0.7 | 5.0 | 28 | 5.9 | 1.9 | 1.0 |
| 4.... | 2.3 | .... | .... | .... | .... | .... | 0.8 | 5.0 | 20 | 5.7 | 1.8 | 1.0 |
| 5.... | 2.3 | .... | .... | .... | .... | .... | 0.9 | 5.3 | 31 | 5.6 | 1.7 | 1.1 |
| 6.... | 2.4 | .... | .... | .... | .... | .... | 0.8 | 5.1 | 30 | 5.0 | 1.7 | 1.3 |
| 7.... | 2.6 | .... | .... | .... | .... | .... | 0.7 | 4.4 | 27 | 4.9 | 2.3 | 1.6 |
| 8.... | 2.4 | .... | .... | .... | .... | .... | 0.7 | 4.4 | 22 | 4.7 | 1.8 | 1.6 |
| 9.... | 2.3 | .... | .... | .... | .... | .... | 0.7 | 5.1 | 21 | 4.2 | 1.7 | 1.3 |
| 10.... | 2.2 | .... | .... | .... | .... | .... | 0.7 | 4.8 | 20 | 3.9 | 1.6 | 1.1 |
| 11.... | 2.2 | .... | .... | .... | .... | .... | 0.7 | 5.3 | 19 | 3.9 | 1.5 | 1.2 |
| 12.... | 2.1 | .... | .... | .... | .... | .... | 0.7 | 5.0 | 19 | 3.8 | 1.3 | 1.2 |
| 13.... | 2.0 | .... | .... | .... | .... | .... | 0.8 | 5.3 | 20 | 3.6 | 1.3 | 1.3 |
| 14.... | 2.0 | .... | .... | .... | .... | .... | 0.8 | 6.4 | 20 | 3.3 | 1.3 | 1.5 |
| 15.... | 2.0 | .... | .... | .... | .... | .... | 0.8 | 7.4 | 22 | 3.6 | 1.3 | 1.2 |
| 16.... | 2.0 | .... | .... | .... | .... | .... | 0.7 | 7.6 | 20 | 3.3 | 1.3 | 1.1 |
| 17.... | 1.9 | .... | .... | .... | .... | .... | 0.7 | 8.4 | 19 | 3.1 | 1.2 | 1.0 |
| 18.... | 1.8 | .... | .... | .... | .... | .... | 0.7 | 9.7 | 16 | 2.8 | 1.2 | 1.0 |
| 19.... | 1.7 | .... | .... | .... | .... | .... | 0.7 | 12 | 14 | 2.7 | 1.2 | 1.0 |
| 20.... | 1.6 | .... | .... | .... | .... | .... | 0.7 | 14 | 13 | 2.4 | 1.2 | 0.9 |
| 21.... | 1.4 | .... | .... | .... | .... | .... | 0.8 | 14 | 12 | 2.3 | 1.1 | 0.9 |
| 22.... | 1.2 | .... | .... | .... | .... | .... | 1.3 | 17 | 11 | 2.3 | 1.1 | 0.9 |
| 23.... | 1.1 | .... | .... | .... | .... | .... | 1.3 | 19 | 10 | 2.2 | 1.0 | 0.9 |
| 24.... | 1.0 | .... | .... | .... | .... | .... | 1.2 | 20 | 10 | 2.2 | 1.1 | 1.0 |
| 25.... | 1.0 | .... | .... | .... | .... | .... | 1.1 | 17 | 9.5 | 2.2 | 1.2 | 0.9 |
| 26.... | 0.9 | .... | .... | .... | .... | .... | 1.3 | 16 | 8.8 | 2.4 | 1.2 | 0.9 |
| 27.... | 0.9 | .... | .... | .... | .... | .... | 1.6 | 16 | 8.0 | 2.3 | 1.2 | 0.9 |
| 28.... | 0.9 | .... | .... | .... | .... | .... | 2.3 | 16 | 7.8 | 2.3 | 1.3 | 1.0 |
| 29.... | 0.9 | .... | .... | .... | .... | .... | 2.7 | 20 | 7.5 | 2.2 | 1.3 | 1.2 |
| 30.... | 0.9 | .... | .... | .... | .... | .... | 2.7 | 24 | 7.0 | 2.2 | 1.5 | 0.9 |
| 31.... | 0.9 | .... | .... | .... | .... | .... | .... | 28 | .... | 2.3 | 1.3 | .... |
| Total | 54.6 | 24.0 | 21.7 | 15.5 | 14.0 | 15.5 | 30.8 | 335.1 | 540.6 | 110.2 | 45.1 | 33.3 |
| Mean. | 1.76 | 0.8 | 0.7 | 0.5 | 0.5 | 0.5 | 1.03 | 10.8 | 18.0 | 3.55 | 1.45 | 1.11 |
| Max.. | 2.7 | .... | .... | .... | .... | .... | 2.7 | 28 | 31 | 6.6 | 2.3 | 1.6 |
| Min.. | 0.9 | .... | .... | .... | .... | .... | 0.6 | 3.6 | 7.0 | 2.2 | 1.0 | 0.9 |
| Acre-ft. | 108 | 48 | 43 | 31 | 28 | 31 | 61 | 665 | 1070 | 219 | 89 | 66 |

Total run-off for water year 1938-39==2,460 acre-feet.

Discharge of North Fork Ranch Creek Near Fraser, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------------------|-------|-------|-------|------|-------|
| 1.... | 0.9 | 0.6 | .... | .... | .... | .... | .... | 1.1 | 26 | 8.5 | 2.7 | 2.1 |
| 2.... | .8 | .6 | .... | .... | .... | .... | .... | 1.6 | 25 | 9.5 | 2.7 | 2.1 |
| 3.... | .8 | .6 | .... | .... | .... | .... | .... | 2.6 | 22 | 8.2 | 2.4 | 2.1 |
| 4.... | .9 | .... | .... | .... | .... | .... | .... | 3.6 | 22 | 7.2 | 2.3 | 2.6 |
| 5.... | .9 | .... | .... | .... | .... | .... | .... | 4.1 | 23 | 6.8 | 2.3 | 2.1 |
| 6.... | 1.0 | .... | .... | .... | .... | .... | .... | 4.6 | 20 | 6.5 | 2.3 | 1.9 |
| 7.... | 1.0 | .... | .... | .... | .... | .... | .... | 5.4 | 18 | 5.7 | 2.4 | 1.8 |
| 8.... | 1.0 | .... | .... | .... | .... | .... | .... | 5.6 | 16 | 5.4 | 2.4 | 1.8 |
| 9.... | 1.1 | .... | .... | .... | .... | .... | .... | 6.6 | 15 | 5.0 | 2.2 | 2.2 |
| 10.... | .9 | .... | .... | .... | .... | .... | .... | 8.2 | 15 | 4.6 | 2.2 | 2.6 |
| 11.... | .9 | .... | .... | .... | .... | .... | .... | 9.2 | 14 | 4.6 | 2.2 | 2.1 |
| 12.... | .9 | .... | .... | .... | .... | .... | .... | 9.8 | 15 | 3.9 | 1.8 | 1.8 |
| 13.... | .9 | .... | .... | .... | .... | .... | .... | 9.5 | 17 | 3.9 | 1.7 | 2.1 |
| 14.... | .9 | .... | .... | .... | .... | .... | .... | 9.5 | 20 | 3.6 | 1.7 | 2.1 |
| 15.... | .8 | .... | .... | .... | .... | .... | .... | 9.8 | 20 | 3.5 | 1.6 | 2.1 |
| 16.... | .8 | .... | .... | .... | .... | .... | .... | 11 | 19 | 3.9 | 1.7 | 1.8 |
| 17.... | .8 | .... | .... | .... | .... | .... | .... | 13 | 18 | 6.3 | 1.7 | 1.9 |
| 18.... | .7 | .... | .... | .... | .... | .... | .... | 11 | 17 | 6.6 | 1.6 | 2.1 |
| 19.... | .7 | .... | .... | .... | .... | .... | .... | 11 | 16 | 5.4 | 1.8 | 2.2 |
| 20.... | .7 | .... | .... | .... | .... | .... | .... | 11 | 16 | 4.7 | 2.2 | 2.2 |
| 21.... | .6 | .... | .... | .... | .... | .... | .... | 11 | 18 | 4.1 | 2.3 | 2.1 |
| 22.... | .6 | .... | .... | .... | .... | .... | Apr. 23 to 30 | 9.5 | 16 | 4.1 | 2.4 | 2.2 |
| 23.... | .6 | .... | .... | .... | .... | .... | 1.3 | 9.5 | 14 | 3.8 | 2.4 | 2.1 |
| 24.... | .6 | .... | .... | .... | .... | .... | 1.1 | 9.5 | 13 | 3.6 | 2.8 | 1.9 |
| 25.... | .6 | .... | .... | .... | .... | .... | 1.1 | 10 | 12 | 3.5 | 3.6 | 2.1 |
| 26.... | .6 | .... | .... | .... | .... | .... | 1.3 | 12 | 11 | 3.3 | 3.1 | 2.6 |
| 27.... | .5 | .... | .... | .... | .... | .... | 2.1 | 13 | 10 | 3.5 | 3.3 | 2.6 |
| 28.... | .4 | .... | .... | .... | .... | .... | 1.9 | 13 | 9.5 | 3.5 | 2.8 | 2.2 |
| 29.... | .6 | .... | .... | .... | .... | .... | 1.3 | 15 | 8.8 | 3.2 | 2.4 | 2.4 |
| 30.... | .4 | .... | .... | .... | .... | .... | 1.1 | 18 | 8.2 | 3.0 | 2.2 | 2.4 |
| 31.... | .5 | .... | .... | .... | .... | .... | .... | 20 | .... | 2.8 | 2.2 | .... |
| Total | 23.4 | .... | .... | .... | .... | .... | 11.2 | 288.7 | 494.5 | 152.2 | 71.4 | 64.3 |
| Mean. | 0.75 | .... | .... | .... | .... | .... | 1.40 | 9.31 | 16.5 | 4.91 | 2.30 | 2.14 |
| Max.. | 1.1 | .... | .... | .... | .... | .... | 2.1 | 20 | 26 | 9.5 | 3.6 | 2.6 |
| Min.. | 0.4 | .... | .... | .... | .... | .... | 1.1 | 1.1 | 8.2 | 2.8 | 1.6 | 1.8 |
| Acre-ft. | 46 | .... | .... | .... | .... | .... | 22 | 573 | 981 | 302 | 142 | 128 |

Total run off for period==2,194 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Middle Fork of Ranch Creek Near Fraser, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1..... | 2.3 | ..... | ..... | ..... | ..... | ..... | 0.8 | 5.6 | 42 | 8.9 | 3.0 | 1.2 |
| 2..... | 2.4 | ..... | ..... | ..... | ..... | ..... | 0.8 | 6.8 | 40 | 8.6 | 2.9 | 1.1 |
| 3..... | 2.3 | ..... | ..... | ..... | ..... | ..... | 0.9 | 6.8 | 43 | 7.7 | 2.6 | 1.0 |
| 4..... | 2.3 | ..... | ..... | ..... | ..... | ..... | 1.0 | 7.1 | 48 | 7.4 | 2.6 | 0.9 |
| 5..... | 2.3 | ..... | ..... | ..... | ..... | ..... | 1.2 | 8.3 | 49 | 7.1 | 2.5 | 1.0 |
| 6..... | 2.4 | ..... | ..... | ..... | ..... | ..... | 1.0 | 8.0 | 42 | 6.8 | 2.8 | 1.1 |
| 7..... | 2.5 | ..... | ..... | ..... | ..... | ..... | 1.0 | 6.6 | 36 | 6.1 | 3.1 | 1.2 |
| 8..... | 2.3 | ..... | ..... | ..... | ..... | ..... | 1.0 | 6.6 | 33 | 5.8 | 2.6 | 1.2 |
| 9..... | 2.2 | ..... | ..... | ..... | ..... | ..... | 1.0 | 8.3 | 32 | 5.1 | 2.3 | 1.0 |
| 10..... | 2.2 | ..... | ..... | ..... | ..... | ..... | 0.9 | 9.2 | 32 | 4.9 | 2.2 | 0.9 |
| 11..... | 2.0 | ..... | ..... | ..... | ..... | ..... | 0.9 | 8.6 | 30 | 4.4 | 2.2 | 1.1 |
| 12..... | 1.9 | ..... | ..... | ..... | ..... | ..... | 1.0 | 6.3 | 30 | 4.1 | 1.9 | 1.1 |
| 13..... | 1.8 | ..... | ..... | ..... | ..... | ..... | 1.1 | 6.8 | 30 | 4.0 | 1.9 | 1.1 |
| 14..... | 1.8 | ..... | ..... | ..... | ..... | ..... | 1.1 | 8.6 | 29 | 4.0 | 1.8 | 1.2 |
| 15..... | 1.8 | ..... | ..... | ..... | ..... | ..... | 1.0 | 9.5 | 30 | 4.0 | 1.7 | 1.1 |
| 16..... | 1.7 | ..... | ..... | ..... | ..... | ..... | 0.9 | 1.1 | 28 | 3.7 | 1.5 | 1.0 |
| 17..... | 1.7 | ..... | ..... | ..... | ..... | ..... | 0.9 | 1.1 | 24 | 3.6 | 1.4 | 0.9 |
| 18..... | 1.5 | ..... | ..... | ..... | ..... | ..... | 1.0 | 6.3 | 21 | 3.4 | 1.4 | 0.9 |
| 19..... | 1.5 | ..... | ..... | ..... | ..... | ..... | 0.9 | 2.1 | 19 | 3.3 | 1.3 | 0.8 |
| 20..... | 2.0 | ..... | ..... | ..... | ..... | ..... | 0.9 | 2.5 | 18 | 3.1 | 1.3 | 0.7 |
| 21..... | 1.9 | ..... | ..... | ..... | ..... | ..... | 1.2 | 2.6 | 18 | 3.0 | 1.3 | 0.7 |
| 22..... | 1.9 | ..... | ..... | ..... | ..... | ..... | 1.6 | 3.0 | 16 | 3.0 | 1.2 | 0.7 |
| 23..... | 2.4 | ..... | ..... | ..... | ..... | ..... | 1.6 | 3.6 | 15 | 2.9 | 1.1 | 0.9 |
| 24..... | 2.4 | ..... | ..... | ..... | ..... | ..... | 1.5 | 3.6 | 14 | 2.8 | 1.2 | 1.0 |
| 25..... | 2.4 | ..... | ..... | ..... | ..... | ..... | 1.5 | 3.0 | 13 | 2.8 | 1.3 | 0.9 |
| 26..... | 2.2 | ..... | ..... | ..... | ..... | ..... | 1.6 | 2.4 | 13 | 3.0 | 1.2 | 0.9 |
| 27..... | 2.0 | ..... | ..... | ..... | ..... | ..... | 2.3 | 2.2 | 11 | 3.0 | 1.2 | 0.8 |
| 28..... | 2.0 | ..... | ..... | ..... | ..... | ..... | 3.7 | 2.4 | 11 | 2.9 | 1.2 | 1.1 |
| 29..... | 2.0 | ..... | ..... | ..... | ..... | ..... | 4.1 | 3.0 | 11 | 2.8 | 1.3 | 1.3 |
| 30..... | 1.9 | ..... | ..... | ..... | ..... | ..... | 4.3 | 3.8 | 9.8 | 2.9 | 1.3 | 1.0 |
| 31..... | 2.0 | ..... | ..... | ..... | ..... | ..... | ..... | 4.6 | ..... | 2.9 | 1.2 | ..... |
| Total | 64.0 | 45.0 | 31.0 | 21.7 | 16.8 | 21.7 | 42.7 | 529.4 | 787.8 | 138.0 | 56.5 | 29.8 |
| Mean | 2.06 | 1.5 | 1.0 | 0.7 | 0.6 | 0.7 | 1.42 | 17.1 | 26.3 | 4.45 | 1.82 | .99 |
| Max. | 2.5 | ..... | ..... | ..... | ..... | ..... | 4.3 | 4.6 | 4.9 | 8.9 | 3.1 | 1.3 |
| Min. | 1.5 | ..... | ..... | ..... | ..... | ..... | 0.8 | 5.6 | 9.8 | 2.8 | 1.1 | 0.7 |
| Acre-ft. | 127 | 89 | 61 | 43 | 33 | 43 | 85 | 1050 | 1560 | 274 | 112 | 59 |

Total run-off for water year 1938-39=3,540 acre-feet.

Discharge of Middle Fork Ranch Creek Near Fraser, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 2.5 | 44 | 10 | 3.4 | 2.3 |
| 2..... | .9 | ..... | ..... | ..... | ..... | ..... | ..... | 3.5 | 54 | 10 | 3.2 | 2.3 |
| 3..... | .8 | ..... | ..... | ..... | ..... | ..... | ..... | 4.0 | 77 | 9.6 | 3.0 | 2.3 |
| 4..... | 1.1 | ..... | ..... | ..... | ..... | ..... | ..... | 4.7 | 42 | 8.6 | 2.9 | 2.5 |
| 5..... | 1.2 | ..... | ..... | ..... | ..... | ..... | ..... | 5.8 | 56 | 8.2 | 2.9 | 2.3 |
| 6..... | 1.2 | ..... | ..... | ..... | ..... | ..... | ..... | 6.6 | 51 | 7.8 | 2.9 | 2.2 |
| 7..... | 1.2 | ..... | ..... | ..... | ..... | ..... | ..... | 7.2 | 30 | 7.0 | 2.9 | 2.2 |
| 8..... | 1.3 | ..... | ..... | ..... | ..... | ..... | ..... | 8.2 | 24 | 6.5 | 2.9 | 2.0 |
| 9..... | 1.4 | ..... | ..... | ..... | ..... | ..... | ..... | 9.5 | 20 | 6.2 | 2.8 | 2.3 |
| 10..... | 1.3 | ..... | ..... | ..... | ..... | ..... | ..... | 1.1 | 20 | 5.8 | 2.8 | 2.6 |
| 11..... | 1.3 | ..... | ..... | ..... | ..... | ..... | ..... | 1.3 | 20 | 5.5 | 2.6 | 2.2 |
| 12..... | 1.3 | ..... | ..... | ..... | ..... | ..... | ..... | 1.4 | 20 | 5.2 | 2.5 | 2.0 |
| 13..... | 1.3 | ..... | ..... | ..... | ..... | ..... | ..... | 1.4 | 24 | 5.0 | 2.4 | 2.2 |
| 14..... | 1.3 | ..... | ..... | ..... | ..... | ..... | ..... | 1.4 | 29 | 4.8 | 2.3 | 2.2 |
| 15..... | 1.3 | ..... | ..... | ..... | ..... | ..... | ..... | 1.3 | 28 | 4.6 | 2.3 | 2.2 |
| 16..... | 1.3 | ..... | ..... | ..... | ..... | ..... | ..... | 1.4 | 27 | 4.6 | 2.3 | 2.0 |
| 17..... | 1.2 | ..... | ..... | ..... | ..... | ..... | ..... | 1.5 | 23 | 6.0 | 2.2 | 2.0 |
| 18..... | 1.2 | ..... | ..... | ..... | ..... | ..... | ..... | 1.4 | 22 | 7.0 | 2.2 | 2.0 |
| 19..... | 1.1 | ..... | ..... | ..... | ..... | ..... | ..... | 1.2 | 22 | 6.2 | 2.3 | 2.0 |
| 20..... | 1.2 | ..... | ..... | ..... | ..... | ..... | ..... | 1.1 | 20 | 5.5 | 2.4 | 2.0 |
| 21..... | 1.2 | ..... | ..... | ..... | ..... | ..... | ..... | 1.0 | 21 | 4.8 | 2.8 | 2.0 |
| 22..... | 1.2 | ..... | ..... | ..... | ..... | ..... | ..... | 9.6 | 19 | 4.6 | 2.8 | 2.0 |
| 23..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 10 | 17 | 4.6 | 2.4 | 2.0 |
| 24..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 10 | 16 | 4.4 | 2.8 | 2.0 |
| 25..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 11 | 15 | 4.2 | 3.6 | 2.0 |
| 26..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 12 | 14 | 4.2 | 3.2 | 2.5 |
| 27..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 14 | 13 | 4.4 | 3.0 | 2.3 |
| 28..... | .9 | ..... | ..... | ..... | ..... | ..... | ..... | 14 | 12 | 4.2 | 2.8 | 2.0 |
| 29..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 13 | 11 | 4.0 | 2.5 | 2.0 |
| 30..... | .9 | ..... | ..... | ..... | ..... | ..... | ..... | 13 | 19 | 3.8 | 2.3 | 2.0 |
| 31..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 14 | ..... | 3.4 | 2.3 | ..... |
| Total | 35.1 | ..... | ..... | ..... | ..... | ..... | 18.3 | 353.6 | 801 | 180.7 | 83.7 | 64.6 |
| Mean | 1.13 | ..... | ..... | ..... | ..... | ..... | 2.29 | 11.4 | 26.7 | 5.83 | 2.70 | 2.15 |
| Max. | 1.4 | ..... | ..... | ..... | ..... | ..... | 2.8 | 3.4 | 7.7 | 10 | 3.6 | 2.6 |
| Min. | .8 | ..... | ..... | ..... | ..... | ..... | 1.8 | 2.5 | 10 | 3.4 | 2.2 | 2.0 |
| Acre-ft. | 70 | ..... | ..... | ..... | ..... | ..... | 36 | 701 | 1590 | 358 | 166 | 128 |

Total run-off for period=3,049 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of South Fork of Ranch Creek Near West Portal, Colo., for Year Ending
Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| 1..... | 1.3 | ..... | ..... | ..... | ..... | ..... | 0.5 | 3.8 | 29 | 4.6 | 1.9 | 0.7 |
| 2..... | 1.4 | ..... | ..... | ..... | ..... | ..... | 0.6 | 4.6 | 27 | 4.4 | 1.8 | 0.7 |
| 3..... | 1.4 | ..... | ..... | ..... | ..... | ..... | 0.6 | 4.9 | 27 | 4.1 | 1.7 | 0.7 |
| 4..... | 1.3 | ..... | ..... | ..... | ..... | ..... | 0.7 | 5.6 | 27 | 3.9 | 1.6 | 0.7 |
| 5..... | 1.3 | ..... | ..... | ..... | ..... | ..... | 0.8 | 6.6 | 26 | 3.6 | 1.6 | 0.7 |
| 6..... | 1.5 | ..... | ..... | ..... | ..... | ..... | 0.7 | 6.4 | 24 | 3.5 | 1.7 | 0.8 |
| 7..... | 1.5 | ..... | ..... | ..... | ..... | ..... | 0.6 | 5.8 | 23 | 3.2 | 2.0 | 0.8 |
| 8..... | 1.5 | ..... | ..... | ..... | ..... | ..... | 0.6 | 6.2 | 21 | 3.1 | 1.4 | 0.7 |
| 9..... | 1.4 | ..... | ..... | ..... | ..... | ..... | 0.6 | 7.7 | 20 | 3.0 | 1.2 | 0.7 |
| 10..... | 1.4 | ..... | ..... | ..... | ..... | ..... | 0.6 | 8.8 | 19 | 2.9 | 1.1 | 0.7 |
| 11..... | 1.3 | ..... | ..... | ..... | ..... | ..... | 0.6 | 9.7 | 18 | 2.7 | 1.0 | 0.7 |
| 12..... | 1.3 | ..... | ..... | ..... | ..... | ..... | 0.6 | 9.4 | 17 | 2.6 | 1.0 | 0.7 |
| 13..... | 1.3 | ..... | ..... | ..... | ..... | ..... | 0.7 | 9.9 | 16 | 2.5 | 1.0 | 0.7 |
| 14..... | 1.3 | ..... | ..... | ..... | ..... | ..... | 0.7 | 13 | 14 | 2.4 | 0.9 | 0.7 |
| 15..... | 1.2 | ..... | ..... | ..... | ..... | ..... | 0.7 | 14 | 14 | 2.4 | 0.9 | 0.7 |
| 16..... | 1.2 | ..... | ..... | ..... | ..... | ..... | 0.6 | 15 | 13 | 2.3 | 0.9 | 0.7 |
| 17..... | 1.2 | ..... | ..... | ..... | ..... | ..... | 0.6 | 17 | 12 | 2.2 | 0.9 | 0.6 |
| 18..... | 1.2 | ..... | ..... | ..... | ..... | ..... | 0.6 | 19 | 11 | 2.1 | 0.9 | 0.6 |
| 19..... | 1.2 | ..... | ..... | ..... | ..... | ..... | 0.6 | 23 | 10 | 2.1 | 0.9 | 0.6 |
| 20..... | 1.2 | ..... | ..... | ..... | ..... | ..... | 0.6 | 31 | 9.7 | 2.0 | 0.9 | 0.6 |
| 21..... | 1.1 | ..... | ..... | ..... | ..... | ..... | 0.7 | 32 | 9.9 | 2.0 | 0.8 | 0.6 |
| 22..... | 1.1 | ..... | ..... | ..... | ..... | ..... | 1.1 | 39 | 8.8 | 2.0 | 0.8 | 0.6 |
| 23..... | 1.0 | ..... | ..... | ..... | ..... | ..... | 1.1 | 43 | 7.7 | 1.9 | 0.8 | 0.6 |
| 24..... | 1.0 | ..... | ..... | ..... | ..... | ..... | 1.0 | 35 | 7.5 | 1.9 | 0.8 | 0.7 |
| 25..... | 1.0 | ..... | ..... | ..... | ..... | ..... | 1.0 | 30 | 6.9 | 2.0 | 0.8 | 0.7 |
| 26..... | 0.9 | ..... | ..... | ..... | ..... | ..... | 1.0 | 26 | 6.6 | 2.1 | 0.7 | 0.7 |
| 27..... | 0.8 | ..... | ..... | ..... | ..... | ..... | 1.5 | 23 | 6.2 | 2.0 | 0.7 | 0.7 |
| 28..... | 0.8 | ..... | ..... | ..... | ..... | ..... | 2.3 | 22 | 5.8 | 1.9 | 0.7 | 0.7 |
| 29..... | 0.8 | ..... | ..... | ..... | ..... | ..... | 2.6 | 23 | 5.4 | 1.9 | 0.8 | 0.8 |
| 30..... | 0.8 | ..... | ..... | ..... | ..... | ..... | 3.0 | 25 | 5.1 | 2.0 | 0.8 | 0.7 |
| 31..... | 0.8 | ..... | ..... | ..... | ..... | ..... | ..... | 31 | ..... | 1.9 | 0.8 | ..... |
| Total | 36.5 | 21.0 | 18.6 | 16.5 | 11.2 | 16.5 | 27.9 | 550.4 | 447.6 | 81.2 | 33.8 | 20.6 |
| Mean... | 118 | 0.7 | 0.6 | 0.5 | 0.4 | 0.5 | .93 | 17.8 | 14.9 | 2.62 | 1.09 | .69 |
| Max... | 1.5 | ..... | ..... | ..... | ..... | ..... | 3.0 | 43 | 29 | 4.6 | 2.0 | 0.8 |
| Min... | 0.8 | ..... | ..... | ..... | ..... | ..... | 0.5 | 3.8 | 5.1 | 1.9 | 0.7 | 0.6 |
| Acre-ft. | 72 | 42 | 37 | 33 | 22 | 33 | 55 | 1090 | 888 | 161 | 67 | 41 |

Total run-off for water year 1938-39=2,540 acre-feet.

**Discharge of South Fork Ranch Creek Near Winter Park, Colorado, for Year Ending
Sept. 30, 1940.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1..... | 0.7 | 1.0 | ..... | ..... | ..... | ..... | ..... | 1.5 | 16 | 5.3 | 1.5 | 1.2 |
| 2..... | .7 | 1.0 | ..... | ..... | ..... | ..... | ..... | 1.7 | 16 | 5.4 | 1.4 | 1.2 |
| 3..... | .7 | .9 | ..... | ..... | ..... | ..... | ..... | 2.1 | 15 | 5.1 | 1.3 | 1.2 |
| 4..... | .9 | ..... | ..... | ..... | ..... | ..... | ..... | 2.9 | 14 | 4.9 | 1.3 | 1.2 |
| 5..... | .9 | ..... | ..... | ..... | ..... | ..... | ..... | 3.5 | 14 | 4.8 | 1.2 | 1.2 |
| 6..... | .9 | ..... | ..... | ..... | ..... | ..... | ..... | 4.6 | 13 | 4.4 | 1.3 | 1.1 |
| 7..... | .9 | ..... | ..... | ..... | ..... | ..... | ..... | 5.4 | 13 | 4.1 | 1.3 | 1.1 |
| 8..... | .9 | ..... | ..... | ..... | ..... | ..... | ..... | 6.0 | 13 | 4.1 | 1.2 | 1.1 |
| 9..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 7.3 | 11 | 3.6 | 1.2 | 1.5 |
| 10..... | .9 | ..... | ..... | ..... | ..... | ..... | ..... | 9.1 | 10 | 3.4 | 1.2 | 1.5 |
| 11..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 12 | 9.9 | 3.4 | 1.2 | 1.2 |
| 12..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 13 | 9.1 | 3.1 | 1.1 | 1.2 |
| 13..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 12 | 9.4 | 2.9 | 1.1 | 1.3 |
| 14..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 13 | 9.4 | 2.7 | 1.1 | 1.2 |
| 15..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 14 | 9.1 | 3.0 | 1.1 | 1.1 |
| 16..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 14 | 9.1 | 2.9 | 1.1 | 1.1 |
| 17..... | 1.1 | ..... | ..... | ..... | ..... | ..... | ..... | 14 | 8.5 | 3.1 | 1.1 | 1.1 |
| 18..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 14 | 8.3 | 3.9 | 1.1 | 1.2 |
| 19..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 14 | 8.3 | 3.1 | 1.1 | 1.1 |
| 20..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 13 | 8.3 | 2.6 | 1.2 | 1.1 |
| 21..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 12 | 9.7 | 2.3 | 1.3 | 1.2 |
| 22..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 12 | 8.0 | 2.2 | 1.3 | 1.1 |
| 23..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 1.4 | 12 | 7.3 | 2.1 | 1.2 |
| 24..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 1.6 | 13 | 6.6 | 2.0 | 1.4 |
| 25..... | .9 | ..... | ..... | ..... | ..... | ..... | ..... | 1.6 | 13 | 6.2 | 1.8 | 1.5 |
| 26..... | .9 | ..... | ..... | ..... | ..... | ..... | ..... | 2.1 | 13 | 5.8 | 1.8 | 1.4 |
| 27..... | .9 | ..... | ..... | ..... | ..... | ..... | ..... | 2.3 | 14 | 5.4 | 2.0 | 1.5 |
| 28..... | 1.1 | ..... | ..... | ..... | ..... | ..... | ..... | 2.2 | 14 | 5.3 | 2.1 | 1.4 |
| 29..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | 1.7 | 14 | 5.1 | 1.8 | 1.2 |
| 30..... | 1.1 | ..... | ..... | ..... | ..... | ..... | ..... | 1.6 | 14 | 5.1 | 1.7 | 1.2 |
| 31..... | 1.0 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 15 | ..... | 1.5 | 1.2 |
| Total | 29.5 | ..... | ..... | ..... | ..... | ..... | ..... | 14.5 | 323.1 | 288.9 | 97.1 | 38.7 |
| Mean... | .95 | ..... | ..... | ..... | ..... | ..... | ..... | 1.81 | 10.4 | 9.63 | 3.13 | 1.25 |
| Max... | 1.1 | ..... | ..... | ..... | ..... | ..... | ..... | 2.3 | 15 | 16 | 5.4 | 1.5 |
| Min... | .7 | ..... | ..... | ..... | ..... | ..... | ..... | 1.4 | 1.5 | 5.1 | 1.5 | 1.0 |
| Acre-ft. | 59 | ..... | ..... | ..... | ..... | ..... | ..... | 29 | 641 | 573 | 193 | 77 |

Total run-off for period=1,642 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Meadow Creek Near Tabernash, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|-------|
| 1..... | 1.4 | ..... | ..... | ..... | ..... | ..... | 1.0 | 57 | 114 | 11 | 4.0 | 2.6 |
| 2..... | 1.4 | ..... | ..... | ..... | ..... | ..... | 1.0 | 48 | 81 | 10 | 3.2 | 2.8 |
| 3..... | 1.3 | ..... | ..... | ..... | ..... | ..... | 1.1 | 50 | 79 | 9.6 | 2.9 | 2.7 |
| 4..... | 1.2 | ..... | ..... | ..... | ..... | ..... | 1.2 | 52 | 93 | 9.0 | 2.6 | 2.6 |
| 5..... | 1.4 | ..... | ..... | ..... | ..... | ..... | 1.3 | 52 | 96 | 8.8 | 2.6 | 1.8 |
| 6..... | 1.7 | ..... | ..... | ..... | ..... | ..... | 1.3 | 46 | 80 | 8.1 | 3.1 | 2.0 |
| 7..... | 2.5 | ..... | ..... | ..... | ..... | ..... | 1.4 | 41 | 62 | 7.7 | 6.4 | 2.2 |
| 8..... | 2.3 | ..... | ..... | ..... | ..... | ..... | 1.6 | 24 | 52 | 7.5 | 3.3 | 2.2 |
| 9..... | 2.6 | ..... | ..... | ..... | ..... | ..... | 1.8 | 42 | 50 | 7.2 | 2.8 | 1.9 |
| 10..... | 2.3 | ..... | ..... | ..... | ..... | ..... | 2.1 | 49 | 48 | 6.8 | 2.7 | 1.7 |
| 11..... | 1.9 | ..... | ..... | ..... | ..... | ..... | 2.1 | 43 | 43 | 6.4 | 2.6 | 1.6 |
| 12..... | 1.6 | ..... | ..... | ..... | ..... | ..... | 2.0 | 35 | 48 | 5.8 | 2.6 | 1.6 |
| 13..... | 1.6 | ..... | ..... | ..... | ..... | ..... | 1.9 | 37 | 44 | 5.0 | 2.5 | 1.6 |
| 14..... | 1.5 | ..... | ..... | ..... | ..... | ..... | 1.8 | 54 | 46 | 4.4 | 2.1 | 1.6 |
| 15..... | 1.5 | ..... | ..... | ..... | ..... | ..... | 1.8 | 71 | 48 | 4.4 | 2.0 | 1.5 |
| 16..... | 1.5 | *1.0 | ..... | ..... | ..... | ..... | 2.2 | 68 | 39 | 4.5 | 2.0 | 1.4 |
| 17..... | 1.4 | ..... | ..... | ..... | ..... | ..... | 2.1 | 65 | 32 | 3.9 | 1.8 | 1.9 |
| 18..... | 1.2 | ..... | ..... | ..... | ..... | ..... | 2.1 | 72 | 25 | 3.4 | 1.8 | 1.9 |
| 19..... | 1.2 | ..... | ..... | ..... | ..... | ..... | 2.1 | 91 | 19 | 3.3 | 1.9 | 1.8 |
| 20..... | 1.2 | ..... | ..... | ..... | ..... | ..... | 2.1 | 100 | 16 | 3.1 | 2.1 | .7 |
| 21..... | 1.1 | ..... | ..... | ..... | ..... | ..... | 2.1 | 103 | 19 | 3.1 | 2.1 | .8 |
| 22..... | 1.1 | ..... | ..... | ..... | ..... | ..... | 2.2 | 114 | 15 | 2.9 | 2.2 | 1.7 |
| 23..... | 1.1 | ..... | ..... | ..... | ..... | ..... | 2.6 | 116 | 14 | 2.8 | 2.0 | 2.5 |
| 24..... | 1.1 | ..... | ..... | ..... | ..... | ..... | 3.1 | 94 | 18 | 2.7 | 2.2 | 2.6 |
| 25..... | 1.1 | ..... | ..... | ..... | ..... | ..... | 4.4 | 66 | 17 | 2.6 | 2.3 | 1.4 |
| 26..... | 1.1 | ..... | ..... | ..... | ..... | ..... | 5.8 | 50 | 14 | 3.6 | 2.3 | .6 |
| 27..... | 1.1 | ..... | ..... | ..... | ..... | ..... | 7.7 | 46 | 13 | 4.4 | 2.6 | .7 |
| 28..... | 1.1 | ..... | ..... | ..... | ..... | ..... | 15 | 58 | 13 | 3.3 | 2.6 | .9 |
| 29..... | 1.1 | ..... | ..... | ..... | ..... | ..... | 35 | 83 | 12 | 3.1 | 2.6 | 1.1 |
| 30..... | 1.1 | ..... | ..... | ..... | ..... | ..... | 49 | 104 | 11 | 3.8 | 2.8 | 1.0 |
| 31..... | 1.1 | ..... | ..... | ..... | ..... | ..... | ..... | 118 | ..... | 4.5 | 2.8 | ..... |
| Total | 44.8 | 30.0 | 27.9 | 27.9 | 22.4 | 40.3 | 160.9 | 2049 | 1261 | 166.7 | 81.5 | 51.4 |
| Mean. | 1.45 | 1.0 | .9 | .9 | .8 | 1.3 | 5.36 | 66.1 | 42.0 | 5.38 | 2.63 | 1.71 |
| Max.. | 2.6 | ..... | ..... | ..... | ..... | ..... | 49 | 118 | 114 | 11 | 6.4 | 2.8 |
| Min.. | 1.1 | ..... | ..... | ..... | ..... | ..... | 1.0 | 24 | 11 | 2.6 | 1.8 | .6 |
| Acre-ft. | 89 | 60 | 55 | 55 | 44 | 80 | 319 | 4060 | 2500 | 331 | 162 | 102 |

Total run-off for water year 1938-39=7,860 acre-feet.

*Discharge measurement.

Discharge of Meadow Creek Near Tabernash, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|-------|-------|-------|-------|--------|-------|-------|------|-------|
| 1..... | 0.7 | 0.8 | 0.7 | ..... | ..... | ..... | 0.6 | 4.8 | 96 | 15 | 1.5 | 1.5 |
| 2..... | .5 | .9 | 1.0 | ..... | ..... | ..... | .7 | 4.6 | 91 | 16 | 1.5 | 1.6 |
| 3..... | .7 | .8 | 1.0 | ..... | ..... | ..... | .7 | 5.2 | 74 | 12 | 1.4 | 1.6 |
| 4..... | 1.0 | .7 | .8 | ..... | ..... | ..... | .7 | 6.2 | 65 | 9.0 | 1.5 | 1.8 |
| 5..... | 1.2 | .8 | .8 | ..... | ..... | ..... | .7 | 10 | 68 | 8.8 | 1.5 | 1.7 |
| 6..... | 1.1 | 1.0 | .7 | ..... | ..... | ..... | .7 | 15 | 55 | 8.3 | 1.5 | 1.7 |
| 7..... | 1.3 | .9 | .7 | ..... | ..... | ..... | .7 | 21 | 47 | 7.5 | 1.6 | 1.7 |
| 8..... | 1.3 | .8 | .8 | ..... | ..... | ..... | .7 | 25 | 42 | 6.6 | 1.5 | 1.6 |
| 9..... | 1.6 | .8 | .9 | ..... | ..... | ..... | .7 | 30 | 32 | 6.6 | 1.3 | 1.8 |
| 10..... | 1.3 | .8 | .9 | ..... | ..... | ..... | .7 | 36 | 29 | 6.2 | 1.4 | 1.9 |
| 11..... | 1.3 | .8 | .8 | ..... | ..... | ..... | .7 | 44 | 32 | 6.6 | 1.5 | 1.8 |
| 12..... | 1.3 | .9 | .7 | ..... | ..... | ..... | .8 | 56 | 35 | 6.6 | 1.3 | 1.7 |
| 13..... | 1.2 | .9 | .7 | ..... | ..... | ..... | .8 | 62 | 38 | 5.4 | 1.3 | 1.8 |
| 14..... | 1.1 | .9 | .7 | ..... | ..... | ..... | .8 | 62 | 47 | 5.4 | 1.2 | 1.9 |
| 15..... | 1.1 | .9 | .7 | ..... | ..... | ..... | .9 | 60 | 48 | 5.0 | 1.2 | 1.9 |
| 16..... | 1.1 | .9 | .7 | ..... | ..... | ..... | 1.0 | 58 | 40 | 5.6 | 1.1 | 1.9 |
| 17..... | 1.0 | .8 | .7 | ..... | ..... | ..... | 1.1 | 58 | 35 | 7.5 | 1.1 | 1.7 |
| 18..... | 1.0 | .8 | .7 | ..... | ..... | ..... | 1.3 | 58 | 31 | 10 | 1.1 | 1.6 |
| 19..... | 1.0 | .7 | .7 | ..... | ..... | ..... | 1.6 | 61 | 28 | 7.9 | 1.2 | 1.4 |
| 20..... | 1.0 | .8 | .7 | ..... | ..... | ..... | 2.0 | 58 | 30 | 6.0 | 1.2 | 1.4 |
| 21..... | .9 | .8 | .6 | ..... | ..... | ..... | 2.6 | 44 | 31 | 5.2 | 1.5 | 1.4 |
| 22..... | 1.0 | .8 | .6 | ..... | ..... | 0.5 | 2.9 | 46 | 23 | 5.0 | 1.6 | 1.4 |
| 23..... | 1.0 | .9 | .6 | ..... | ..... | ..... | 3.5 | 40 | 19 | 4.6 | 1.5 | 1.5 |
| 24..... | .9 | .8 | .6 | ..... | ..... | ..... | 3.9 | 46 | 17 | 4.4 | 1.4 | 1.8 |
| 25..... | .8 | .8 | .6 | ..... | ..... | ..... | 5.0 | 55 | 15 | 4.0 | 1.3 | 2.0 |
| 26..... | .8 | .7 | .6 | ..... | ..... | ..... | 6.0 | 65 | 15 | 4.4 | 1.3 | 3.2 |
| 27..... | .8 | .9 | .6 | ..... | ..... | ..... | 6.4 | 81 | 15 | 3.9 | 1.6 | 3.0 |
| 28..... | .7 | .8 | .6 | ..... | ..... | ..... | 6.8 | 76 | 16 | 3.3 | 1.4 | 2.2 |
| 29..... | .8 | .7 | .6 | ..... | ..... | ..... | 6.0 | 81 | 15 | 3.4 | 1.3 | 2.4 |
| 30..... | .8 | .7 | .6 | ..... | ..... | ..... | 5.0 | 86 | 15 | 2.6 | 1.3 | 2.6 |
| 31..... | .8 | ..... | .6 | ..... | ..... | ..... | ..... | 92 | ..... | 2.1 | 1.3 | ..... |
| Total | 31.1 | 24.6 | 22.0 | 15.5 | 11.6 | 15.5 | 66.0 | 1446.8 | 1144 | 204.9 | 42.4 | 55.5 |
| Mean. | 1.00 | .82 | .71 | 0.5 | 0.4 | 0.5 | 2.20 | 46.7 | 38.1 | 6.61 | 1.37 | 1.85 |
| Max.. | 1.6 | 1.0 | 1.0 | ..... | ..... | ..... | 6.8 | 92 | 16 | 1.6 | 1.6 | 3.2 |
| Min.. | .5 | .7 | .6 | ..... | ..... | ..... | .6 | 4.6 | 15 | 2.1 | 1.1 | 1.4 |
| Acre-ft. | 62 | 49 | 44 | 31 | 23 | 31 | 131 | 2870 | 2270 | 406 | 84 | 110 |

Total run-off for water year 1939-40=6,110 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Strawberry Creek Near Granby, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|---------|-------|------|-------|-------|-------|
| 1.... | 1.0 | .6 | ..... | ..... | ..... | ..... | ..... | 54 | 24 | 9.4 | 5.4 | 0 |
| 2.... | 1.0 | .6 | ..... | ..... | ..... | ..... | ..... | 58 | 18 | 9.1 | 3.6 | 0 |
| 3.... | 1.1 | .6 | ..... | ..... | ..... | ..... | ..... | 58 | 12 | 8.2 | 2.1 | 0 |
| 4.... | 1.1 | .8 | ..... | ..... | ..... | ..... | ..... | 57 | 12 | 7.6 | 2.0 | 0 |
| 5.... | 1.1 | .9 | ..... | ..... | ..... | ..... | ..... | 58 | 14 | 6.7 | 2.0 | 0 |
| 6.... | 1.4 | 1.0 | ..... | ..... | ..... | ..... | ..... | 54 | 12 | 6.2 | 2.3 | 0 |
| 7.... | 2.2 | 1.0 | ..... | ..... | ..... | ..... | ..... | 48 | 14 | 4.8 | 6.7 | .4 |
| 8.... | 2.4 | 1.0 | ..... | ..... | ..... | ..... | ..... | 46 | 20 | 5.6 | 4.3 | .6 |
| 9.... | 2.0 | 1.5 | ..... | ..... | ..... | ..... | ..... | 47 | 18 | 5.4 | 2.8 | .5 |
| 10.... | 2.0 | 1.7 | ..... | ..... | ..... | ..... | ..... | 46 | 18 | 4.8 | 1.5 | 0 |
| 11.... | 2.0 | 1.6 | ..... | ..... | ..... | ..... | ..... | 45 | 16 | 4.6 | .4 | 0 |
| 12.... | 1.5 | 1.4 | ..... | ..... | ..... | ..... | ..... | 40 | 14 | 3.4 | .4 | 0 |
| 13.... | 1.4 | 1.2 | ..... | ..... | ..... | ..... | ..... | 39 | 14 | 3.9 | .7 | 0 |
| 14.... | 1.3 | 1.2 | ..... | ..... | ..... | ..... | ..... | 38 | 13 | 3.6 | .6 | .1 |
| 15.... | 1.2 | 1.3 | ..... | ..... | ..... | ..... | ..... | 39 | 13 | 2.0 | .4 | .1 |
| 16.... | 1.2 | 1.5 | ..... | ..... | ..... | ..... | ..... | 42 | 14 | 4.1 | .3 | 0 |
| 17.... | 1.2 | 1.7 | ..... | ..... | ..... | ..... | ..... | 43 | 13 | 3.6 | .2 | .5 |
| 18.... | .8 | 1.7 | ..... | ..... | ..... | ..... | ..... | 44 | 12 | 3.0 | .4 | 1.1 |
| 19.... | .7 | 1.6 | ..... | ..... | ..... | ..... | Apr. 21 | 43 | 12 | 2.8 | .2 | 0 |
| 20.... | .7 | 1.6 | ..... | ..... | ..... | ..... | to 30 | 41 | 10 | 2.1 | 0 | .7 |
| 21.... | .7 | 1.6 | ..... | ..... | ..... | ..... | ..... | 14 | 11 | 1.8 | 0 | 0 |
| 22.... | .7 | 1.4 | ..... | ..... | ..... | ..... | ..... | 22 | 41 | 5.6 | 1.5 | 0 |
| 23.... | .6 | 1.2 | ..... | ..... | ..... | ..... | ..... | 26 | 37 | 3.4 | 2.3 | 0 |
| 24.... | .6 | 1.2 | ..... | ..... | ..... | ..... | ..... | 21 | 33 | 12 | 2.1 | 0 |
| 25.... | .5 | 1.3 | ..... | ..... | ..... | ..... | ..... | 18 | 32 | 14 | 2.1 | 0 |
| 26.... | .5 | 1.4 | ..... | ..... | ..... | ..... | ..... | 20 | 32 | 13 | 2.3 | 0 |
| 27.... | .5 | 1.4 | ..... | ..... | ..... | ..... | ..... | 29 | 27 | 12 | 4.8 | .2 |
| 28.... | .5 | 1.5 | ..... | ..... | ..... | ..... | ..... | 41 | 23 | 9.7 | 3.0 | 0 |
| 29.... | .6 | 1.5 | ..... | ..... | ..... | ..... | ..... | 47 | 18 | 10 | 2.3 | 0 |
| 30.... | .6 | 1.4 | ..... | ..... | ..... | ..... | ..... | 49 | 18 | 10 | 3.0 | 0 |
| 31.... | .6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 21 | ..... | 5.1 | 0 |
| Total | 33.7 | 38.4 | ..... | ..... | ..... | ..... | ..... | 287 | 1263 | 393.7 | 131.2 | 36.5 |
| Mean. | 1.09 | 1.28 | ..... | ..... | ..... | ..... | ..... | 28.7 | 40.7 | 13.1 | 4.23 | 1.18 |
| Max.. | 2.4 | 1.7 | ..... | ..... | ..... | ..... | ..... | 49 | 58 | 24 | 9.4 | 6.7 |
| Min.. | .5 | .6 | ..... | ..... | ..... | ..... | ..... | 14 | 18 | 3.4 | 1.5 | 0 |
| Acre-ft. | 67 | 76 | ..... | ..... | ..... | ..... | ..... | 569 | 2510 | 781 | 260 | 72 |

Total run-off for period=1,364 acre-feet.

Discharge of Strawberry Creek Near Granby, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|--------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|
| 1.... | 1.4 | 1.4 | ..... | ..... | ..... | ..... | 2.1 | 14 | 16 | 9.2 | 2.4 | 0.3 |
| 2.... | 1.3 | 1.0 | ..... | ..... | ..... | ..... | 2.1 | 21 | 16 | 11 | 2.4 | .3 |
| 3.... | 1.3 | 1.0 | ..... | ..... | ..... | ..... | 2.0 | 21 | 14 | 6.1 | 2.2 | .1 |
| 4.... | 1.8 | .7 | ..... | ..... | ..... | ..... | 2.1 | 21 | 11 | 3.8 | 2.0 | .1 |
| 5.... | 2.8 | 0 | ..... | ..... | ..... | ..... | 2.3 | 25 | 14 | 3.8 | 1.8 | .1 |
| 6.... | 3.0 | .1 | ..... | ..... | ..... | ..... | 2.5 | 29 | 22 | 4.0 | 1.4 | .1 |
| 7.... | 2.8 | .1 | ..... | ..... | ..... | ..... | 2.5 | 31 | 21 | 6.7 | 1.0 | 0 |
| 8.... | 2.5 | .1 | ..... | ..... | ..... | ..... | 2.4 | 33 | 19 | 7.3 | 1.2 | .2 |
| 9.... | 4.1 | .3 | ..... | ..... | ..... | ..... | 2.4 | 38 | 14 | 6.7 | 1.2 | .1 |
| 10.... | 3.2 | .7 | ..... | ..... | ..... | ..... | 2.4 | 36 | 13 | 5.8 | .9 | .8 |
| 11.... | 3.2 | .5 | ..... | ..... | ..... | ..... | 2.3 | 38 | 10 | 5.2 | 1.2 | .9 |
| 12.... | 3.0 | .6 | ..... | ..... | ..... | ..... | 2.3 | 37 | 10 | 6.4 | .8 | .6 |
| 13.... | 3.0 | .7 | ..... | ..... | ..... | ..... | 3.0 | 42 | 8.5 | 4.5 | .6 | .1 |
| 14.... | 2.5 | .6 | ..... | ..... | ..... | ..... | 5.4 | 40 | 3.2 | 4.5 | .5 | .1 |
| 15.... | 2.3 | .7 | ..... | ..... | ..... | ..... | 7.4 | 39 | 12 | 4.2 | .4 | .1 |
| 16.... | 2.0 | .6 | ..... | ..... | ..... | ..... | 7.6 | 38 | 12 | 4.5 | .1 | .1 |
| 17.... | 2.0 | .8 | ..... | ..... | ..... | ..... | 6.8 | 37 | 11 | 6.7 | .4 | .1 |
| 18.... | 1.8 | ..... | ..... | ..... | ..... | ..... | 8.0 | 30 | 9.9 | 15 | .3 | .1 |
| 19.... | 1.8 | ..... | ..... | ..... | ..... | ..... | ..... | 11 | 26 | 11 | 12 | .1 |
| 20.... | 1.7 | ..... | ..... | ..... | ..... | ..... | ..... | 15 | 25 | 11 | 5.8 | .2 |
| 21.... | 1.1 | ..... | ..... | ..... | ..... | ..... | ..... | 16 | 28 | 7.3 | 5.5 | .5 |
| 22.... | .7 | ..... | ..... | ..... | ..... | Mar. 23 | 16 | 22 | 2.2 | 4.5 | 1.6 | 1.2 |
| 23.... | .6 | ..... | ..... | ..... | ..... | to 31 | 16 | 17 | 14 | 4.0 | 1.6 | 1.0 |
| 24.... | .6 | ..... | ..... | ..... | ..... | ..... | 1.5 | 14 | 15 | 12 | 3.0 | 1.8 |
| 25.... | .6 | ..... | ..... | ..... | ..... | ..... | 1.6 | 16 | 16 | 12 | 2.2 | 5.2 |
| 26.... | .6 | ..... | ..... | ..... | ..... | ..... | 1.6 | 19 | 22 | 12 | 2.0 | 5.0 |
| 27.... | .6 | ..... | ..... | ..... | ..... | ..... | 1.6 | 25 | 31 | 11 | 2.0 | 6.1 |
| 28.... | .5 | ..... | ..... | ..... | ..... | ..... | 1.6 | 19 | 16 | 10 | 2.4 | 3.8 |
| 29.... | .7 | ..... | ..... | ..... | ..... | ..... | 1.5 | 15 | 15 | 9.6 | 2.2 | 2.0 |
| 30.... | 1.0 | ..... | ..... | ..... | ..... | ..... | 1.6 | 13 | 12 | 8.2 | 2.2 | .7 |
| 31.... | 1.4 | Nov. 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .3 |
| Total | 55.9 | 9.9 | ..... | ..... | ..... | ..... | 14.3 | 260.6 | 829 | 356.9 | 165.4 | 50.0 |
| Mean. | 1.80 | .58 | ..... | ..... | ..... | ..... | 1.59 | 8.69 | 26.7 | 11.9 | 5.34 | 1.61 |
| Max.. | 4.1 | 1.4 | ..... | ..... | ..... | ..... | 1.8 | 25 | 42 | 22 | 15 | 6.1 |
| Min.. | .5 | 0 | ..... | ..... | ..... | ..... | 1.5 | 2.0 | 12 | 3.2 | 2.0 | .1 |
| Acre-ft. | 111 | 20 | ..... | ..... | ..... | ..... | 28 | 517 | 1640 | 708 | 328 | 99 |

Total run-off for period=3,485 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Williams Fork River Below Steelman Creek, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|
| 1.... | 12 | 7.3 | ..... | ..... | ..... | ..... | 4.0 | 36 | 164 | 69 | 23 | 7.9 |
| 2.... | 12 | 6.8 | ..... | ..... | ..... | ..... | 4.0 | 47 | 140 | 66 | 21 | 7.9 |
| 3.... | 12 | 6.6 | ..... | ..... | ..... | ..... | 4.2 | 53 | 150 | 63 | 20 | 7.0 |
| 4.... | 12 | 6.4 | ..... | ..... | ..... | ..... | 4.6 | 54 | 186 | 60 | 19 | 7.0 |
| 5.... | 12 | 6.2 | ..... | ..... | ..... | ..... | 4.8 | 59 | 203 | 61 | 18 | 7.3 |
| 6.... | 14 | 6.0 | ..... | ..... | ..... | ..... | 4.8 | 57 | 182 | 60 | 20 | 8.2 |
| 7.... | 16 | 6.0 | ..... | ..... | ..... | ..... | 4.6 | 40 | 158 | 57 | 24 | 9.1 |
| 8.... | 16 | 6.0 | ..... | ..... | ..... | ..... | 4.8 | 38 | 140 | 54 | 18 | 9.4 |
| 9.... | 14 | 6.0 | ..... | ..... | ..... | ..... | 5.2 | 49 | 131 | 51 | 16 | 7.9 |
| 10.... | 14 | 6.0 | ..... | ..... | ..... | ..... | 4.8 | 59 | 128 | 49 | 15 | 7.3 |
| 11.... | 14 | 5.8 | ..... | ..... | ..... | ..... | 4.6 | 57 | 122 | 47 | 14 | 8.2 |
| 12.... | 14 | 5.6 | ..... | ..... | ..... | ..... | 4.8 | 57 | 134 | 45 | 13 | 7.6 |
| 13.... | 14 | 5.8 | ..... | ..... | ..... | ..... | 5.0 | 50 | 161 | 44 | 13 | 7.9 |
| 14.... | 14 | 5.8 | ..... | ..... | ..... | ..... | 5.0 | 65 | 175 | 42 | 12 | 8.2 |
| 15.... | 14 | 5.8 | ..... | ..... | ..... | ..... | 5.2 | 86 | 175 | 41 | 11 | 7.9 |
| 16.... | 14 | 5.8 | ..... | ..... | ..... | ..... | 5.0 | 84 | 168 | 38 | 11 | 8.2 |
| 17.... | 14 | 5.8 | ..... | ..... | ..... | ..... | 5.0 | 70 | 150 | 37 | 10 | 7.6 |
| 18.... | 12 | 5.8 | ..... | ..... | ..... | ..... | 5.0 | 73 | 122 | 35 | 10 | 7.3 |
| 19.... | 9.7 | 5.8 | ..... | ..... | ..... | ..... | 5.0 | 97 | 106 | 33 | 9.7 | 7.3 |
| 20.... | 13 | 5.4 | ..... | ..... | ..... | ..... | 5.2 | 110 | 93 | 30 | 9.4 | 7.3 |
| 21.... | 10 | 5.4 | ..... | ..... | ..... | ..... | 6.0 | 122 | 86 | 29 | 9.7 | 7.6 |
| 22.... | 10 | 5.4 | ..... | ..... | ..... | ..... | 6.6 | 154 | 78 | 28 | 9.4 | 7.3 |
| 23.... | 11 | 5.2 | ..... | ..... | ..... | ..... | 7.6 | 147 | 78 | 26 | 8.8 | 7.3 |
| 24.... | 12 | 5.4 | ..... | ..... | ..... | ..... | 7.0 | 131 | 79 | 25 | 9.4 | 9.4 |
| 25.... | 11 | 5.4 | ..... | ..... | ..... | ..... | 6.6 | 108 | 81 | 23 | 9.7 | 11 |
| 26.... | 9.7 | 5.4 | ..... | ..... | ..... | ..... | 7.2 | 84 | 78 | 26 | 8.8 | 11 |
| 27.... | 9.1 | 5.4 | ..... | ..... | ..... | ..... | 7.9 | 76 | 76 | 27 | 10 | 9.4 |
| 28.... | 8.5 | 5.2 | ..... | ..... | ..... | ..... | 12 | 89 | 75 | 23 | 10 | 9.7 |
| 29.... | 9.1 | 5.2 | ..... | ..... | ..... | ..... | 22 | 119 | 73 | 23 | 10 | 10 |
| 30.... | 8.5 | 5.2 | ..... | ..... | ..... | ..... | 32 | 144 | 75 | 31 | 9.4 | 8.5 |
| 31.... | 7.6 | ..... | ..... | ..... | ..... | ..... | ..... | 161 | ..... | 27 | 8.2 | ..... |
| Total | 373.2 | 173.9 | 148.8 | 133.3 | 109.2 | 114.7 | 210.5 | 2576 | 3767 | 1270 | 410.5 | 247.7 |
| Mean. | 12.0 | 5.80 | 4.8 | 4.3 | 3.9 | 3.7 | 7.02 | 83.1 | 126 | 41.0 | 13.2 | 8.26 |
| Max.. | 16 | 7.3 | ..... | ..... | ..... | ..... | 32 | 161 | 203 | 69 | 24 | 11 |
| Min.. | 7.6 | 5.2 | ..... | ..... | ..... | ..... | 4.0 | 36 | 73 | 23 | 8.2 | 7.0 |
| Acre-ft. | 740 | 345 | 295 | 264 | 217 | 228 | 418 | 5110 | 7470 | 2520 | 814 | 491 |

Total run-off for water year 1938-39=18,910 acre-feet.

Discharge of Williams Fork River Below Steelman Creek, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.... | 7.9 | 6.6 | ..... | ..... | ..... | ..... | 1.2 | 7.1 | 36 | 9.8 | 2.1 | 12 |
| 2.... | 7.7 | 6.4 | ..... | ..... | ..... | ..... | 1.2 | 12 | 43 | 9.6 | 1.8 | 12 |
| 3.... | 7.7 | 6.4 | ..... | ..... | ..... | ..... | 1.2 | 13 | 42 | 9.8 | 1.7 | 16 |
| 4.... | 7.9 | 6.4 | ..... | ..... | ..... | ..... | 1.2 | 16 | 39 | 9.6 | 1.6 | 14 |
| 5.... | 7.9 | 6.6 | ..... | ..... | ..... | ..... | 1.2 | 18 | 32 | 8.4 | 1.5 | 12 |
| 6.... | 8.2 | 5.7 | ..... | ..... | ..... | ..... | 1.2 | 21 | 25 | 7.9 | 1.5 | 12 |
| 7.... | 6.8 | 5.6 | ..... | ..... | ..... | ..... | 1.2 | 20 | 22 | 7.7 | 1.4 | 12 |
| 8.... | 6.6 | 6.0 | ..... | ..... | ..... | ..... | 1.1 | 25 | 20 | 7.5 | 1.3 | 13 |
| 9.... | 7.1 | 6.2 | ..... | ..... | ..... | ..... | 1.1 | 32 | 17 | 7.1 | 1.2 | 13 |
| 10.... | 8.2 | 6.2 | ..... | ..... | ..... | ..... | 1.1 | 29 | 15 | 7.1 | 2.0 | 13 |
| 11.... | 7.5 | 6.2 | ..... | ..... | ..... | ..... | 1.1 | 11 | 15 | 7.1 | 1.6 | 12 |
| 12.... | 7.7 | 6.2 | ..... | ..... | ..... | ..... | 1.5 | 12 | 16 | 6.8 | 1.4 | 12 |
| 13.... | 7.1 | 6.0 | ..... | ..... | ..... | ..... | 1.8 | 13 | 17 | 6.6 | 1.2 | 13 |
| 14.... | 6.8 | 5.8 | ..... | ..... | ..... | ..... | 2.1 | 11 | 18 | 6.8 | 1.1 | 12 |
| 15.... | 6.6 | 5.4 | ..... | ..... | ..... | ..... | 2.4 | 12 | 18 | 6.2 | 6.2 | 12 |
| 16.... | 6.4 | 4.9 | ..... | ..... | ..... | ..... | 2.3 | 13 | 17 | 6.0 | 9.3 | 12 |
| 17.... | 6.4 | 4.6 | ..... | ..... | ..... | ..... | 2.4 | 13 | 17 | 7.1 | 8.8 | 12 |
| 18.... | 6.8 | 4.3 | ..... | ..... | ..... | ..... | 2.8 | 13 | 16 | 7.5 | 8.4 | 12 |
| 19.... | 6.6 | 4.2 | ..... | ..... | ..... | ..... | 3.4 | 12 | 15 | 6.6 | 12 | 12 |
| 20.... | 6.8 | 4.3 | ..... | ..... | ..... | ..... | 4.1 | 12 | 20 | 6.0 | 14 | 12 |
| 21.... | 6.4 | 4.3 | ..... | ..... | ..... | ..... | 4.7 | 11 | 18 | 5.7 | 13 | 12 |
| 22.... | 6.2 | 4.3 | ..... | ..... | ..... | ..... | 4.9 | 11 | 16 | 5.5 | 12 | 12 |
| 23.... | 6.2 | 4.2 | ..... | ..... | ..... | ..... | 4.8 | 11 | 13 | 5.1 | 13 | 12 |
| 24.... | 6.0 | 4.1 | ..... | ..... | ..... | ..... | 5.2 | 11 | 13 | 4.7 | 18 | 11 |
| 25.... | 6.2 | 4.1 | ..... | ..... | ..... | ..... | 7.0 | 11 | 12 | 4.2 | 21 | 12 |
| 26.... | 5.7 | 4.2 | ..... | ..... | ..... | ..... | 8.0 | 12 | 12 | 3.7 | 22 | 17 |
| 27.... | 6.0 | 4.1 | ..... | ..... | ..... | ..... | 8.0 | 13 | 11 | 3.3 | 21 | 19 |
| 28.... | 5.6 | 3.8 | ..... | ..... | ..... | ..... | 7.6 | 14 | 11 | 3.2 | 17 | 17 |
| 29.... | 6.0 | 3.5 | ..... | ..... | ..... | 1.1 | 7.2 | 14 | 10 | 3.1 | 14 | 17 |
| 30.... | 5.6 | 3.3 | ..... | ..... | ..... | ..... | 7.1 | 17 | 10 | 2.9 | 13 | 17 |
| 31.... | 6.2 | ..... | ..... | ..... | ..... | ..... | ..... | 25 | ..... | 2.5 | 12 | ..... |
| Total | 210.8 | 153.9 | 77.5 | 49.6 | 37.7 | 37.2 | 100.1 | 465.1 | 586 | 195.1 | 256.1 | 396 |
| Mean. | 6.80 | 5.13 | 2.5 | 1.6 | 1.3 | 1.2 | 3.34 | 15.0 | 19.5 | 6.29 | 8.26 | 13.2 |
| Max.. | 8.2 | 6.6 | ..... | ..... | ..... | ..... | 8.0 | 32 | 43 | 9.8 | 22 | 19 |
| Min.. | 5.6 | 3.3 | ..... | ..... | ..... | ..... | 1.1 | 7.1 | 10 | 2.5 | 1.1 | 11 |
| Acre-ft. | 418 | 305 | 154 | 98 | 75 | 74 | 199 | 923 | 1160 | 387 | 508 | 785 |

Total run-off for water year 1939-40=5,090 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Table to Correct Williams Fork River Below Steelman Creek for Diversion by Jones Pass Tunnel, for Water Year October 1, 1939, to September 30, 1940.

| Month | Runoff in Acre-Feet | Diverted by Jones Pass Tunnel Acre-Feet | Corrected for Diversion Acre-Feet |
|---|------------------------|---|---|
| October | 418 | 0 | 418 |
| November | 305 | 0 | 305 |
| December | 154 | 0 | 154 |
| January, 1940..... | 98 | 0 | 98 |
| February | 75 | 0 | 75 |
| March | 74 | 0 | 74 |
| April | 199 | 0 | 199 |
| May | 923 | 1970 | 2890 |
| June | 1160 | 5560 | 6720 |
| July | 387 | 1747 | 2130 |
| August | 508 | 284 | 792 |
| September | 785 | 0 | 785 |
| Total run-off for water year 1939-1940..... | 5090 | 9560 | 14640 |

Discharge of Williams Fork River Near Leal, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 46 | 34 | 31 | 27 | 21 | 19 | 23 | 164 | 702 | 234 | 86 | 40 |
| 2.... | 45 | 31 | 31 | 26 | 21 | 19 | 24 | 133 | 594 | 220 | 77 | 37 |
| 3.... | 46 | 33 | 30 | 27 | 22 | 18 | 25 | 188 | 600 | 211 | 72 | 34 |
| 4.... | 46 | 42 | 30 | 27 | 22 | 18 | 28 | 133 | 732 | 198 | 66 | 33 |
| 5.... | 45 | 37 | 31 | 28 | 22 | 18 | 32 | 204 | 810 | 188 | 66 | 34 |
| 6.... | 47 | 36 | 31 | 27 | 22 | 18 | 28 | 209 | 762 | 188 | 67 | 39 |
| 7.... | 54 | 36 | 30 | 26 | 22 | 18 | 28 | 162 | 672 | 174 | 95 | 40 |
| 8.... | 54 | 37 | 30 | 26 | 22 | 18 | 29 | 153 | 588 | 162 | 74 | 41 |
| 9.... | 47 | 37 | 30 | 26 | 21 | 18 | 31 | 186 | 534 | 153 | 64 | 37 |
| 10.... | 48 | 37 | 30 | 26 | 22 | 19 | 29 | 222 | 502 | 146 | 60 | 34 |
| 11.... | 47 | 36 | 30 | 25 | 21 | 19 | 28 | 225 | 485 | 140 | 56 | 38 |
| 12.... | 45 | 32 | 29 | 25 | 21 | 20 | 30 | 217 | 502 | 134 | 54 | 36 |
| 13.... | 44 | 31 | 28 | 25 | 21 | 20 | 33 | 204 | 564 | 128 | 50 | 36 |
| 14.... | 42 | 33 | 23 | 25 | 21 | 20 | 36 | 245 | 660 | 124 | 47 | 36 |
| 15.... | 42 | 33 | 29 | 24 | 21 | 20 | 34 | 312 | 630 | 120 | 46 | 34 |
| 16.... | 40 | 34 | 28 | 25 | 21 | 20 | 31 | 331 | 594 | 118 | 45 | 34 |
| 17.... | 41 | 34 | 28 | 24 | 22 | 20 | 30 | 298 | 534 | 114 | 41 | 34 |
| 18.... | 37 | 34 | 23 | 24 | 21 | 19 | 30 | 298 | 450 | 106 | 40 | 32 |
| 19.... | 39 | 34 | 29 | 24 | 21 | 20 | 32 | 381 | 386 | 98 | 38 | 31 |
| 20.... | 34 | 33 | 28 | 24 | 21 | 21 | 31 | 460 | 338 | 95 | 37 | 30 |
| 21.... | 36 | 32 | 28 | 24 | 21 | 21 | 38 | 496 | 323 | 91 | 38 | 31 |
| 22.... | 35 | 32 | 28 | 23 | 21 | 23 | 60 | 582 | 294 | 84 | 38 | 30 |
| 23.... | 32 | 30 | 28 | 23 | 21 | 25 | 67 | 636 | 284 | 81 | 35 | 31 |
| 24.... | 33 | 33 | 28 | 23 | 21 | 25 | 60 | 564 | 288 | 77 | 35 | 35 |
| 25.... | 33 | 32 | 28 | 22 | 21 | 25 | 54 | 475 | 288 | 76 | 39 | 44 |
| 26.... | 33 | 30 | 28 | 23 | 20 | 25 | 58 | 372 | 271 | 81 | 36 | 45 |
| 27.... | 34 | 30 | 28 | 21 | 20 | 27 | 77 | 335 | 261 | 95 | 39 | 40 |
| 28.... | 34 | 30 | 28 | 21 | 21 | 24 | 108 | 372 | 252 | 88 | 45 | 39 |
| 29.... | 32 | 31 | 28 | 21 | .... | 24 | 144 | 470 | 242 | 74 | 42 | 42 |
| 30.... | 34 | 30 | 28 | 21 | .... | 24 | 160 | 564 | 245 | 100 | 45 | 37 |
| 31.... | 34 | .... | 28 | 21 | .... | 24 | .... | 684 | .... | 102 | 40 | .... |
| Total | 1259 | 1004 | 887 | 754 | 594 | 649 | 1418 | 10375 | 14387 | 4000 | 1613 | 1084 |
| Mean.. | 40.6 | 33.5 | 28.6 | 24.3 | 21.2 | 20.9 | 47.3 | 335 | 450 | 129 | 52.0 | 36.1 |
| Max... | 54 | 42 | 31 | 28 | 22 | 27 | 160 | 684 | 810 | 234 | 95 | 45 |
| Min... | 32 | 30 | 23 | 21 | 20 | 18 | 23 | 153 | 242 | 74 | 35 | 30 |
| Acre-ft. | 2500 | 1990 | 1760 | 1500 | 1180 | 1290 | 2810 | 20580 | 28540 | 7930 | 3200 | 2150 |

Total run-off for water year 1938-39=75,430 acre-feet.

Discharge of Williams Fork River Near Leal, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|-------|
| 1.... | 34 | 33 | 18 | 14 | 17 | 16 | 25 | 45 | 386 | 151 | 33 | 42 |
| 2.... | 33 | 33 | 17 | 14 | 17 | 17 | 25 | 54 | 430 | 149 | 32 | 38 |
| 3.... | 32 | 30 | 18 | 14 | 16 | 15 | 24 | 73 | 422 | 171 | 31 | 40 |
| 4.... | 35 | 29 | 18 | 16 | 16 | 16 | 24 | 88 | 399 | 157 | 30 | 59 |
| 5.... | 35 | 32 | 16 | 16 | 16 | 16 | 24 | 102 | 386 | 130 | 29 | 44 |
| 6.... | 36 | 32 | 16 | 16 | 15 | 18 | 25 | 106 | 342 | 120 | 28 | 40 |
| 7.... | 34 | 30 | 17 | 15 | 17 | 17 | 24 | 122 | 234 | 109 | 29 | 41 |
| 8.... | 31 | 28 | 17 | 16 | 16 | 17 | 22 | 118 | 274 | 101 | 29 | 38 |
| 9.... | 40 | 31 | 18 | 16 | 17 | 18 | 23 | 138 | 242 | 93 | 28 | 44 |
| 10.... | 37 | 22 | 18 | 16 | 18 | 19 | 22 | 160 | 228 | 87 | 27 | 48 |
| 11.... | 38 | 25 | 18 | 16 | 17 | 20 | 18 | 155 | 252 | 84 | 27 | 43 |
| 12.... | 38 | 28 | 18 | 17 | 17 | 18 | 21 | 166 | 261 | 78 | 25 | 40 |
| 13.... | 37 | 29 | 17 | 18 | 17 | 18 | 25 | 188 | 288 | 75 | 23 | 43 |
| 14.... | 36 | 26 | 18 | 17 | 17 | 18 | 29 | 146 | 308 | 73 | 22 | 44 |
| 15.... | 35 | 26 | 17 | 18 | 17 | 19 | 32 | 155 | 312 | 66 | 22 | 44 |
| 16.... | 35 | 25 | 18 | 17 | 16 | 18 | 30 | 183 | 294 | 68 | 26 | 43 |
| 17.... | 34 | 23 | 16 | 17 | 18 | 20 | 26 | 186 | 294 | 85 | 28 | 43 |
| 18.... | 33 | 22 | 14 | 18 | 17 | 19 | 30 | 162 | 281 | 96 | 28 | 43 |
| 19.... | 33 | 20 | 14 | 18 | 17 | 18 | 40 | 160 | 268 | 84 | 30 | 44 |
| 20.... | 32 | 21 | 15 | 17 | 16 | 19 | 50 | 164 | 277 | 71 | 40 | 45 |
| 21.... | 32 | 22 | 15 | 18 | 16 | 20 | 51 | 171 | 298 | 66 | 39 | 42 |
| 22.... | 32 | 22 | 14 | 18 | 16 | 19 | 50 | 146 | 261 | 63 | 38 | 43 |
| 23.... | 32 | 22 | 14 | 17 | 16 | 20 | 45 | 140 | 231 | 60 | 35 | 41 |
| 24.... | 31 | 21 | 14 | 17 | 15 | 22 | 52 | 149 | 209 | 57 | 47 | 41 |
| 25.... | 32 | 21 | 14 | 17 | 15 | 24 | 52 | 164 | 198 | 51 | 61 | 42 |
| 26.... | 32 | 22 | 14 | 17 | 15 | 24 | 57 | 174 | 186 | 51 | 63 | 60 |
| 27.... | 32 | 22 | 14 | 17 | 15 | 24 | 68 | 204 | 171 | 47 | 67 | 67 |
| 28.... | 26 | 19 | 13 | 18 | 15 | 22 | 64 | 204 | 157 | 46 | 59 | 60 |
| 29.... | 31 | 18 | 13 | 18 | 14 | 22 | 51 | 239 | 149 | 44 | 51 | 56 |
| 30.... | 26 | 18 | 14 | 19 | .... | 22 | 46 | 261 | 146 | 42 | 45 | 57 |
| 31.... | 32 | .... | 14 | 18 | .... | 24 | .... | 327 | .... | 36 | 43 | .... |
| Total | 1039 | 752 | 491 | 520 | 471 | 599 | 1075 | 4850 | 8234 | 2611 | 1115 | 1375 |
| Mean.. | 33.5 | 25.1 | 15.8 | 16.8 | 16.2 | 19.3 | 35.8 | 156 | 274 | 84.2 | 36.0 | 45.8 |
| Max... | 40 | 33 | 18 | 19 | 18 | 24 | 68 | 327 | 430 | 171 | 67 | 67 |
| Min... | 26 | 18 | 13 | 14 | 14 | 15 | 18 | 45 | 146 | 36 | 22 | 38 |
| Acre-ft. | 2060 | 1490 | 974 | 1030 | 934 | 1190 | 2130 | 9620 | 16330 | 5180 | 2210 | 2730 |

Total run-off for water year 1939-40=45,880 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Table to Correct Williams Fork River Near Leal for Diversion by Jones Pass Tunnel, for Water Year October 1, 1939, to September 30, 1940.

| Month | Runoff in Acre-Feet | Diverted by Jones Pass Tunnel Acre-Feet | Corrected for Diversion Acre-Feet |
|---|------------------------|---|---|
| October | 2060 | 0 | 2060 |
| November | 1490 | 0 | 1490 |
| December | 974 | 0 | 974 |
| January | 1030 | 0 | 1030 |
| February | 934 | 0 | 934 |
| March | 1190 | 0 | 1190 |
| April | 2130 | 0 | 2130 |
| May | 9620 | 1970 | 11590 |
| June | 16330 | 5560 | 21890 |
| July | 5180 | 1750 | 6930 |
| August | 2210 | 284 | 2490 |
| September | 2730 | 0 | 2730 |
| Total run-off for water year 1939-1940..... | 45880 | 9560 | 55440 |

Discharge of Williams Fork River Near Parshall, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 69 | 43 | 46 | 41 | 37 | 34 | 48 | 326 | 695 | 217 | 113 | 49 |
| 2.... | 71 | 44 | 44 | 42 | 36 | 36 | 47 | 362 | 635 | 201 | 97 | 47 |
| 3.... | 73 | 40 | 45 | 44 | 32 | 37 | 53 | 372 | 585 | 194 | 88 | 34 |
| 4.... | 69 | 54 | 47 | 38 | 29 | 35 | 62 | 362 | 635 | 185 | 82 | 20 |
| 5.... | 67 | 54 | 49 | 39 | 27 | 35 | 71 | 372 | 675 | 173 | 74 | 19 |
| 6.... | 67 | 50 | 46 | 37 | 33 | 36 | 62 | 398 | 665 | 167 | 76 | 21 |
| 7.... | 73 | 46 | 47 | 35 | 34 | 38 | 54 | 318 | 615 | 155 | 123 | 24 |
| 8.... | 74 | 46 | 50 | 33 | 36 | 39 | 52 | 269 | 565 | 141 | 111 | 24 |
| 9.... | 73 | 47 | 48 | 38 | 33 | 38 | 58 | 313 | 520 | 133 | 95 | 25 |
| 10.... | 71 | 54 | 48 | 38 | 36 | 40 | 50 | 385 | 495 | 125 | 86 | 22 |
| 11.... | 64 | 50 | 40 | 38 | 30 | 38 | 47 | 376 | 495 | 120 | 78 | 22 |
| 12.... | 62 | 47 | 41 | 39 | 29 | 37 | 50 | 376 | 490 | 113 | 76 | 21 |
| 13.... | 60 | 47 | 39 | 32 | 31 | 39 | 64 | 354 | 530 | 108 | 58 | 50 |
| 14.... | 59 | 48 | 40 | 35 | 34 | 37 | 76 | 403 | 570 | 102 | 49 | 52 |
| 15.... | 58 | 50 | 44 | 32 | 35 | 33 | 76 | 470 | 575 | 99 | 48 | 52 |
| 16.... | 56 | 52 | 44 | 36 | 36 | 41 | 65 | 490 | 560 | 99 | 46 | 52 |
| 17.... | 58 | 56 | 44 | 33 | 31 | 41 | 53 | 448 | 525 | 91 | 49 | 33 |
| 18.... | 56 | 58 | 40 | 37 | 27 | 41 | 52 | 444 | 485 | 80 | 49 | 18 |
| 19.... | 56 | 60 | 43 | 40 | 32 | 46 | 62 | 510 | 426 | 74 | 48 | 18 |
| 20.... | 50 | 56 | 41 | 38 | 33 | 42 | 62 | 565 | 385 | 71 | 48 | 18 |
| 21.... | 56 | 52 | 44 | 41 | 33 | 41 | 86 | 570 | 367 | 65 | 49 | 18 |
| 22.... | 48 | 43 | 46 | 31 | 28 | 46 | 147 | 660 | 336 | 62 | 48 | 18 |
| 23.... | 48 | 44 | 40 | 32 | 35 | 50 | 182 | 715 | 308 | 56 | 44 | 19 |
| 24.... | 48 | 44 | 41 | 35 | 35 | 54 | 152 | 660 | 300 | 52 | 41 | 20 |
| 25.... | 47 | 48 | 39 | 36 | 37 | 65 | 141 | 605 | 295 | 50 | 44 | 27 |
| 26.... | 48 | 50 | 39 | 33 | 36 | 63 | 150 | 530 | 271 | 52 | 42 | 27 |
| 27.... | 47 | 47 | 37 | 36 | 34 | 57 | 176 | 462 | 255 | 69 | 41 | 28 |
| 28.... | 47 | 44 | 39 | 37 | 33 | 52 | 238 | 475 | 238 | 76 | 53 | 26 |
| 29.... | 42 | 42 | 40 | 38 | .... | 50 | 300 | 525 | 227 | 71 | 54 | 32 |
| 30.... | 42 | 44 | 39 | 37 | .... | 48 | 331 | 570 | 227 | 88 | 54 | 26 |
| 31.... | 43 | .... | 40 | 38 | .... | 48 | .... | 605 | .... | 144 | 50 | .... |
| Total | 1802 | 1460 | 1330 | 1139 | 922 | 1337 | 3067 | 14290 | 13950 | 3433 | 2014 | 862 |
| Mean. | 58.1 | 48.7 | 42.9 | 36.7 | 32.9 | 43.1 | 102 | 461 | 465 | 111 | 65.0 | 28.7 |
| Max. | 74 | 60 | 50 | 44 | 37 | 65 | 331 | 715 | 695 | 217 | 123 | 52 |
| Min. | 42 | 40 | 37 | 31 | 27 | 33 | 47 | 269 | 227 | 50 | 41 | 18 |
| Acre-ft. | 3570 | 2900 | 2640 | 2260 | 1830 | 2650 | 6080 | 28340 | 27670 | 6810 | 3990 | 1710 |

Total run-off for water year 1938-39=90,450 acre-feet.

Discharge of Williams Fork River Near Parshall, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 24 | 48 | 41 | 34 | 28 | 35 | 53 | 90 | 465 | 100 | 45 | 63 |
| 2.... | 22 | 49 | 41 | 32 | 28 | 33 | 53 | 105 | 465 | 105 | 42 | 60 |
| 3.... | 21 | 45 | 38 | 33 | 27 | 31 | 48 | 135 | 500 | 115 | 40 | 54 |
| 4.... | 23 | 42 | 39 | 35 | 27 | 33 | 49 | 170 | 451 | 145 | 39 | 71 |
| 5.... | 24 | 46 | 39 | 33 | 26 | 35 | 50 | 200 | 428 | 100 | 38 | 68 |
| 6.... | 24 | 49 | 41 | 29 | 26 | 35 | 52 | 206 | 420 | 92 | 37 | 62 |
| 7.... | 25 | 43 | 42 | 28 | 26 | 36 | 48 | 226 | 343 | 77 | 37 | 60 |
| 8.... | 56 | 41 | 42 | 32 | 25 | 36 | 44 | 206 | 320 | 74 | 43 | 57 |
| 9.... | 64 | 44 | 40 | 28 | 25 | 37 | 48 | 216 | 268 | 72 | 51 | 60 |
| 10.... | 62 | 39 | 38 | 30 | 26 | 38 | 44 | 280 | 244 | 62 | 52 | 68 |
| 11.... | 60 | 39 | 41 | 28 | 26 | 37 | 39 | 280 | 256 | 57 | 56 | 67 |
| 12.... | 59 | 43 | 38 | 26 | 25 | 36 | 39 | 289 | 256 | 59 | 51 | 62 |
| 13.... | 58 | 44 | 35 | 27 | 25 | 35 | 44 | 338 | 284 | 62 | 43 | 54 |
| 14.... | 59 | 44 | 36 | 26 | 24 | 36 | 56 | 276 | 312 | 63 | 34 | 45 |
| 15.... | 56 | 43 | 37 | 23 | 25 | 37 | 71 | 272 | 325 | 62 | 28 | 44 |
| 16.... | 54 | 43 | 38 | 24 | 24 | 41 | 75 | 284 | 289 | 58 | 28 | 43 |
| 17.... | 52 | 47 | 39 | 24 | 23 | 40 | 58 | 281 | 281 | 58 | 30 | 40 |
| 18.... | 51 | 40 | 37 | 22 | 25 | 42 | 64 | 256 | 260 | 75 | 30 | 40 |
| 19.... | 50 | 38 | 30 | 22 | 26 | 44 | 88 | 248 | 240 | 125 | 34 | 50 |
| 20.... | 50 | 40 | 31 | 22 | 27 | 45 | 110 | 248 | 233 | 120 | 48 | 62 |
| 21.... | 48 | 39 | 32 | 23 | 26 | 46 | 110 | 248 | 294 | 105 | 51 | 60 |
| 22.... | 49 | 42 | 28 | 22 | 27 | 43 | 100 | 226 | 256 | 96 | 51 | 62 |
| 23.... | 48 | 43 | 31 | 22 | 28 | 45 | 82 | 200 | 200 | 74 | 49 | 60 |
| 24.... | 49 | 41 | 28 | 23 | 31 | 46 | 96 | 197 | 176 | 70 | 57 | 59 |
| 25.... | 48 | 39 | 30 | 25 | 28 | 48 | 96 | 206 | 165 | 64 | 88 | 59 |
| 26.... | 49 | 40 | 31 | 24 | 30 | 48 | 103 | 220 | 148 | 62 | 94 | 74 |
| 27.... | 50 | 43 | 29 | 24 | 32 | 46 | 127 | 268 | 127 | 59 | 96 | 90 |
| 28.... | 43 | 40 | 26 | 25 | 33 | 46 | 127 | 272 | 110 | 56 | 90 | 78 |
| 29.... | 48 | 38 | 28 | 27 | 35 | 42 | 105 | 298 | 92 | 52 | 75 | 78 |
| 30.... | 41 | 40 | 32 | 27 | .... | 43 | 96 | 325 | 84 | 50 | 68 | 78 |
| 31.... | 46 | .... | 35 | 26 | .... | 49 | .... | 384 | .... | 48 | 65 | .... |
| Total | 1413 | 1268 | 1093 | 826 | 784 | 1244 | 2175 | 7453 | 8295 | 2417 | 1590 | 1828 |
| Mean. | 45.6 | 42.3 | 35.3 | 26.6 | 27.0 | 40.1 | 72.5 | 240 | 276 | 78.0 | 51.3 | 60.9 |
| Max. | 64 | 49 | 42 | 35 | 35 | 49 | 127 | 384 | 500 | 145 | 96 | 90 |
| Min. | 21 | 38 | 26 | 22 | 23 | 31 | 39 | 90 | 84 | 48 | 28 | 40 |
| Acre-ft. | 2800 | 2520 | 2170 | 1640 | 1560 | 2470 | 4310 | 14780 | 16450 | 4790 | 3150 | 3630 |

Total run-off for water year 1939-40=60,270 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Table to Correct Williams Fork River Near Parshall for Diversion by Jones Pass Tunnel, for Water Year October 1, 1939, to September 30, 1940.

| Month | Runoff in Acre-Feet | Diverted by Jones Pass Tunnel Acre-Feet | Corrected for Diversion Acre-Feet |
|---|------------------------|---|---|
| October | 2800 | 0 | 2800 |
| November | 2520 | 0 | 2520 |
| December | 2170 | 0 | 2170 |
| January | 1640 | 0 | 1640 |
| February | 1560 | 0 | 1560 |
| March | 2470 | 0 | 2470 |
| April | 4310 | 0 | 4310 |
| May | 14780 | 1970 | 16750 |
| June | 16450 | 5560 | 22010 |
| July | 4790 | 1750 | 6540 |
| August | 3150 | 284 | 3430 |
| September | 3630 | 0 | 3630 |
| Total run-off for water year 1939-1940..... | 60270 | 9560 | 69830 |

Discharge of Blue River at Dillon, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 70 | 48 | 37 | 27 | 19 | 22 | 37 | 271 | 470 | 224 | 101 | 52 |
| 2.... | 70 | 50 | 35 | 27 | 17 | 21 | 36 | 296 | 450 | 219 | 101 | 52 |
| 3.... | 68 | 50 | 33 | 28 | 16 | 20 | 38 | 307 | 440 | 216 | 113 | 47 |
| 4.... | 65 | 51 | 34 | 28 | 18 | 20 | 39 | 307 | 470 | 211 | 113 | 50 |
| 5.... | 65 | 51 | 35 | 26 | 20 | 21 | 35 | 318 | 498 | 208 | 108 | 48 |
| 6.... | 67 | 47 | 32 | 25 | 21 | 20 | 29 | 366 | 503 | 206 | 111 | 48 |
| 7.... | 72 | 43 | 32 | 24 | 21 | 21 | 30 | 339 | 465 | 203 | 87 | 48 |
| 8.... | 80 | 39 | 33 | 22 | 19 | 23 | 31 | 303 | 420 | 201 | 87 | 46 |
| 9.... | 78 | 40 | 31 | 23 | 19 | 22 | 32 | 285 | 385 | 198 | 81 | 48 |
| 10.... | 77 | 40 | 33 | 24 | 18 | 24 | 32 | 299 | 370 | 188 | 70 | 48 |
| 11.... | 74 | 41 | 30 | 24 | 18 | 26 | 32 | 344 | 366 | 181 | 76 | 48 |
| 12.... | 70 | 43 | 27 | 25 | 17 | 24 | 33 | 357 | 352 | 176 | 61 | 48 |
| 13.... | 68 | 38 | 24 | 24 | 19 | 25 | 36 | 339 | 344 | 165 | 59 | 48 |
| 14.... | 67 | 37 | 22 | 22 | 18 | 26 | 39 | 348 | 375 | 156 | 57 | 50 |
| 15.... | 64 | 38 | 23 | 20 | 20 | 25 | 42 | 361 | 400 | 142 | 57 | 48 |
| 16.... | 63 | 39 | 25 | 23 | 21 | 28 | 40 | 410 | 395 | 136 | 59 | 52 |
| 17.... | 63 | 40 | 27 | 23 | 17 | 31 | 37 | 425 | 385 | 130 | 55 | 50 |
| 18.... | 63 | 41 | 24 | 24 | 17 | 28 | 39 | 415 | 361 | 122 | 54 | 48 |
| 19.... | 62 | 42 | 26 | 24 | 21 | 29 | 39 | 430 | 318 | 110 | 50 | 47 |
| 20.... | 59 | 39 | 25 | 22 | 23 | 31 | 41 | 508 | 288 | 101 | 50 | 47 |
| 21.... | 54 | 37 | 26 | 23 | 22 | 33 | 48 | 530 | 268 | 98 | 48 | 46 |
| 22.... | 54 | 32 | 27 | 21 | 21 | 35 | 60 | 547 | 254 | 99 | 48 | 44 |
| 23.... | 53 | 31 | 24 | 22 | 20 | 38 | 72 | 564 | 245 | 96 | 48 | 46 |
| 24.... | 51 | 29 | 25 | 21 | 21 | 36 | 86 | 564 | 239 | 96 | 48 | 44 |
| 25.... | 50 | 30 | 24 | 19 | 22 | 38 | 94 | 503 | 245 | 106 | 48 | 46 |
| 26.... | 49 | 33 | 25 | 18 | 21 | 39 | 105 | 435 | 248 | 106 | 48 | 47 |
| 27.... | 49 | 36 | 23 | 19 | 22 | 36 | 128 | 375 | 242 | 103 | 47 | 46 |
| 28.... | 49 | 37 | 25 | 20 | 20 | 35 | 163 | 370 | 236 | 101 | 48 | 47 |
| 29.... | 48 | 33 | 26 | 21 | .... | 33 | 219 | 395 | 233 | 108 | 47 | 46 |
| 30.... | 47 | 35 | 27 | 22 | .... | 34 | 215 | 430 | 227 | 111 | 46 | 44 |
| 31.... | 47 | .... | 26 | 21 | .... | 35 | .... | 445 | .... | 101 | 52 | .... |
| Total | 1916 | 1190 | 866 | 712 | 548 | 879 | 1937 | 12186 | 10492 | 4618 | 2078 | 1429 |
| Mean. | 61.8 | 39.7 | 27.9 | 23.0 | 19.6 | 28.4 | 64.6 | 393 | 350 | 149 | 67.0 | 47.6 |
| Max. | 80 | 51 | 37 | 28 | 23 | 39 | 245 | 564 | 503 | 224 | 113 | 52 |
| Min. | 47 | 29 | 22 | 18 | 16 | 20 | 29 | 271 | 227 | 96 | 46 | 44 |
| Acre-ft. | 3800 | 2360 | 1720 | 1410 | 1090 | 1740 | 3840 | 24170 | 20810 | 9160 | 4120 | 2830 |

Total run-off for water year 1938-39=77,050 acre-feet.

Discharge of Blue River at Dillon, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 40 | 30 | 23 | 16 | 14 | 12 | 23 | 55 | 338 | 185 | 68 | 53 |
| 2.... | 38 | 30 | 23 | 17 | 16 | 13 | 24 | 55 | 379 | 192 | 64 | 51 |
| 3.... | 38 | 30 | 22 | 17 | 16 | 15 | 24 | 61 | 379 | 176 | 61 | 49 |
| 4.... | 38 | 32 | 21 | 18 | 16 | 15 | 24 | 71 | 338 | 173 | 60 | 47 |
| 5.... | 38 | 30 | 22 | 17 | 16 | 16 | 25 | 89 | 326 | 165 | 60 | 47 |
| 6.... | 38 | 30 | 22 | 17 | 16 | 15 | 25 | 104 | 323 | 156 | 59 | 46 |
| 7.... | 38 | 31 | 20 | 16 | 16 | 14 | 24 | 104 | 278 | 146 | 59 | 47 |
| 8.... | 40 | 32 | 20 | 18 | 16 | 16 | 26 | 118 | 239 | 138 | 58 | 47 |
| 9.... | 40 | 30 | 21 | 17 | 15 | 17 | 24 | 124 | 222 | 130 | 58 | 46 |
| 10.... | 38 | 27 | 22 | 18 | 16 | 19 | 24 | 138 | 210 | 122 | 56 | 50 |
| 11.... | 38 | 24 | 23 | 17 | 16 | 19 | 27 | 160 | 208 | 120 | 56 | 58 |
| 12.... | 36 | 26 | 20 | 15 | 15 | 18 | 31 | 188 | 212 | 114 | 55 | 60 |
| 13.... | 36 | 27 | 18 | 14 | 14 | 18 | 21 | 202 | 225 | 107 | 53 | 60 |
| 14.... | 36 | 28 | 15 | 13 | 13 | 18 | 23 | 202 | 239 | 104 | 52 | 61 |
| 15.... | 36 | 28 | 15 | 12 | 14 | 18 | 25 | 195 | 260 | 107 | 51 | 64 |
| 16.... | 36 | 27 | 16 | 12 | 12 | 20 | 26 | 198 | 251 | 105 | 50 | 64 |
| 17.... | 36 | 25 | 19 | 13 | 11 | 19 | 26 | 210 | 239 | 109 | 47 | 64 |
| 18.... | 35 | 23 | 17 | 11 | 10 | 19 | 28 | 215 | 254 | 116 | 45 | 62 |
| 19.... | 35 | 21 | 14 | 10 | 12 | 19 | 30 | 190 | 248 | 120 | 45 | 61 |
| 20.... | 34 | 22 | 14 | 11 | 12 | 20 | 33 | 178 | 251 | 114 | 44 | 59 |
| 21.... | 32 | 24 | 15 | 11 | 13 | 21 | 37 | 180 | 264 | 107 | 44 | 55 |
| 22.... | 32 | 24 | 14 | 10 | 13 | 21 | 36 | 178 | 254 | 102 | 47 | 55 |
| 23.... | 30 | 25 | 15 | 11 | 14 | 21 | 42 | 171 | 239 | 98 | 48 | 59 |
| 24.... | 32 | 25 | 14 | 12 | 13 | 22 | 44 | 167 | 228 | 95 | 47 | 64 |
| 25.... | 33 | 23 | 15 | 13 | 12 | 22 | 47 | 169 | 218 | 89 | 49 | 68 |
| 26.... | 34 | 22 | 15 | 14 | 12 | 22 | 50 | 176 | 210 | 86 | 52 | 71 |
| 27.... | 33 | 22 | 14 | 15 | 13 | 22 | 55 | 190 | 200 | 82 | 58 | 74 |
| 28.... | 30 | 23 | 13 | 16 | 12 | 22 | 61 | 202 | 188 | 79 | 64 | 79 |
| 29.... | 31 | 22 | 14 | 15 | 12 | 22 | 64 | 218 | 188 | 77 | 62 | 76 |
| 30.... | 30 | 22 | 15 | 14 | .... | 22 | 59 | 248 | 180 | 74 | 60 | 74 |
| 31.... | 32 | .... | 16 | 13 | .... | 23 | .... | 292 | .... | 72 | 55 | .... |
| Total | 1093 | 785 | 547 | 443 | 400 | 580 | 1008 | 5048 | 7588 | 3660 | 1687 | 1771 |
| Mean. | 35.3 | 26.2 | 17.6 | 14.3 | 13.8 | 18.7 | 33.6 | 163 | 253 | 118 | 54.4 | 59.0 |
| Max. | 40 | 32 | 23 | 18 | 16 | 23 | 64 | 292 | 379 | 192 | 68 | 79 |
| Min. | 30 | 21 | 13 | 10 | 10 | 12 | 21 | 55 | 180 | 72 | 44 | 46 |
| Acre-ft. | 2170 | 1560 | 1080 | 879 | 793 | 1150 | 2000 | 10010 | 15050 | 7260 | 3350 | 3510 |

Total run-off for water year 1939-40=48,810 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Blue River Below Green Mountain Reservoir Site Near Kremmling, Colo.,
for Year Ending Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|-------|------|------|-------|------|-------|--------|-------|-------|-------|-------|
| 1..... | 288 | 193 | 150 | 130 | 115 | 105 | 210 | 1290 | 2740 | 954 | 420 | 266 |
| 2..... | 288 | 200 | 155 | 135 | 110 | 110 | 220 | 1520 | 2280 | 933 | 407 | 263 |
| 3..... | 292 | 186 | 145 | 130 | 110 | 110 | 228 | 1580 | 2100 | 905 | 378 | 246 |
| 4..... | 284 | 200 | 150 | 130 | 110 | 105 | 246 | 1460 | 2360 | 881 | 359 | 228 |
| 5..... | 277 | 214 | 155 | 130 | 110 | 105 | 266 | 1670 | 2600 | 849 | 340 | 228 |
| 6..... | 274 | 180 | 155 | 130 | 110 | 110 | 246 | 1830 | 2480 | 842 | 348 | 242 |
| 7..... | 288 | 161 | 155 | 130 | 110 | 115 | 218 | 1430 | 2100 | 807 | 399 | 266 |
| 8..... | 325 | 180 | 155 | 125 | 110 | 115 | 210 | 1210 | 2040 | 772 | 374 | 292 |
| 9..... | 317 | 193 | 150 | 125 | 105 | 125 | 242 | 1290 | 1790 | 744 | 344 | 336 |
| 10..... | 292 | 207 | 160 | 130 | 105 | 120 | 224 | 1710 | 1640 | 712 | 321 | 281 |
| 11..... | 295 | 193 | 145 | 125 | 105 | 120 | 207 | 1750 | 1670 | 700 | 310 | 274 |
| 12..... | 284 | 165 | 135 | 130 | 100 | 125 | 221 | 1760 | 1660 | 664 | 299 | 281 |
| 13..... | 270 | 150 | 135 | 125 | 100 | 125 | 263 | 1620 | 1760 | 631 | 295 | 277 |
| 14..... | 263 | 155 | 120 | 130 | 105 | 130 | 295 | 1660 | 2030 | 593 | 288 | 277 |
| 15..... | 256 | 160 | 125 | 120 | 105 | 120 | 292 | 1980 | 2060 | 567 | 281 | 274 |
| 16..... | 252 | 165 | 130 | 125 | 100 | 125 | 266 | 2220 | 1910 | 552 | 274 | 263 |
| 17..... | 249 | 160 | 130 | 125 | 96 | 130 | 228 | 2160 | 1840 | 538 | 266 | 256 |
| 18..... | 242 | 165 | 130 | 120 | 94 | 135 | 210 | 1930 | 1580 | 509 | 263 | 238 |
| 19..... | 235 | 160 | 125 | 120 | 96 | 135 | 249 | 2220 | 1340 | 477 | 256 | 228 |
| 20..... | 221 | 155 | 130 | 125 | 96 | 125 | 249 | 2570 | 1210 | 455 | 252 | 214 |
| 21..... | 218 | 145 | 130 | 128 | 94 | 135 | 299 | 2560 | 1140 | 437 | 252 | 214 |
| 22..... | 214 | 134 | 130 | 125 | 93 | 140 | 411 | 2740 | 1090 | 420 | 252 | 210 |
| 23..... | 204 | 125 | 130 | 125 | 96 | 155 | 528 | 2840 | 1050 | 399 | 238 | 204 |
| 24..... | 197 | 120 | 130 | 120 | 98 | 160 | 509 | 2590 | 1090 | 386 | 238 | 210 |
| 25..... | 193 | 115 | 125 | 120 | 98 | 155 | 482 | 2240 | 1120 | 378 | 242 | 221 |
| 26..... | 197 | 115 | 125 | 115 | 100 | 165 | 491 | 1830 | 1080 | 374 | 242 | 232 |
| 27..... | 200 | 125 | 124 | 115 | 100 | 175 | 578 | 1600 | 1030 | 403 | 246 | 232 |
| 28..... | 200 | 130 | 125 | 120 | 105 | 180 | 751 | 1670 | 1020 | 420 | 274 | 228 |
| 29..... | 193 | 140 | 125 | 120 | ..... | 178 | 996 | 2050 | 1010 | 399 | 274 | 246 |
| 30..... | 193 | 145 | 125 | 115 | ..... | 190 | 1180 | 2380 | 982 | 411 | 284 | 238 |
| 31..... | 193 | ..... | 130 | 115 | ..... | 200 | ..... | 2480 | ..... | 442 | 277 | ..... |
| Total | 7694 | 4836 | 4230 | 3858 | 2876 | 4223 | 11015 | 59840 | 49902 | 18557 | 9293 | 7465 |
| Mean. | 248 | 161 | 136 | 124 | 103 | 136 | 367 | 1930 | 1663 | 599 | 300 | 249 |
| Max. | 325 | 214 | 160 | 135 | 115 | 200 | 1180 | 2840 | 2740 | 954 | 420 | 336 |
| Min. | 193 | 115 | 120 | 115 | 93 | 105 | 207 | 1210 | 982 | 374 | 238 | 204 |
| Ac.-ft. | 15260 | 9590 | 8390 | 7650 | 5700 | 8380 | 21850 | 118700 | 98980 | 36810 | 18430 | 14810 |

Total run-off for water year 1938-39=364,600 acre-feet.

**Discharge of Blue River Below Green Mountain Reservoir Site Near Kremmling, Colorado,
for Year Ending Sept. 30, 1940.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|-------|------|------|-------|------|-------|-------|-------|-------|-------|-------|
| 1.... | 228 | 158 | 110 | 110 | 86 | 110 | 176 | 260 | 2320 | 900 | 326 | 278 |
| 2.... | 218 | 158 | 115 | 110 | 86 | 110 | 180 | 282 | 2440 | 914 | 314 | 263 |
| 3.... | 204 | 148 | 120 | 110 | 88 | 105 | 145 | 334 | 2390 | 949 | 298 | 249 |
| 4.... | 210 | 148 | 120 | 115 | 90 | 110 | 143 | 445 | 2100 | 970 | 286 | 270 |
| 5.... | 214 | 145 | 115 | 115 | 88 | 110 | 158 | 555 | 2030 | 848 | 282 | 263 |
| 6.... | 221 | 145 | 110 | 110 | 86 | 115 | 166 | 560 | 1920 | 783 | 270 | 256 |
| 7.... | 210 | 134 | 110 | 110 | 88 | 110 | 145 | 623 | 1400 | 724 | 274 | 252 |
| 8.... | 210 | 126 | 114 | 100 | 90 | 110 | 130 | 628 | 1330 | 675 | 270 | 242 |
| 9.... | 235 | 128 | 120 | 98 | 92 | 115 | 136 | 669 | 1160 | 640 | 266 | 242 |
| 10.... | 224 | 110 | 115 | 96 | 92 | 115 | 136 | 816 | 1010 | 612 | 252 | 249 |
| 11.... | 214 | 107 | 115 | 96 | 92 | 120 | 124 | 1020 | 1030 | 590 | 252 | 260 |
| 12.... | 210 | 115 | 110 | 96 | 90 | 120 | 115 | 1240 | 1240 | 590 | 238 | 256 |
| 13.... | 204 | 115 | 105 | 96 | 88 | 115 | 134 | 1410 | 1450 | 540 | 226 | 260 |
| 14.... | 197 | 114 | 105 | 94 | 86 | 115 | 161 | 1100 | 1740 | 530 | 214 | 266 |
| 15.... | 190 | 110 | 105 | 92 | 84 | 120 | 204 | 1000 | 1750 | 510 | 214 | 263 |
| 16.... | 186 | 107 | 105 | 88 | 84 | 120 | 224 | 1180 | 1480 | 525 | 211 | 263 |
| 17.... | 180 | 101 | 110 | 92 | 82 | 125 | 180 | 1280 | 1570 | 585 | 211 | 260 |
| 18.... | 176 | 98 | 110 | 88 | 80 | 130 | 176 | 1020 | 1600 | 687 | 205 | 266 |
| 19.... | 169 | 97 | 105 | 84 | 80 | 135 | 218 | 874 | 1550 | 731 | 205 | 270 |
| 20.... | 166 | 98 | 100 | 86 | 84 | 145 | 263 | 914 | 1560 | 606 | 223 | 270 |
| 21.... | 163 | 100 | 100 | 86 | 84 | 150 | 299 | 928 | 1610 | 530 | 226 | 256 |
| 22.... | 163 | 105 | 98 | 86 | 86 | 150 | 310 | 842 | 1540 | 520 | 232 | 260 |
| 23.... | 158 | 105 | 96 | 84 | 90 | 150 | 281 | 790 | 1360 | 470 | 229 | 252 |
| 24.... | 156 | 100 | 98 | 86 | 92 | 155 | 302 | 854 | 1270 | 450 | 238 | 260 |
| 25.... | 153 | 100 | 100 | 88 | 94 | 163 | 314 | 914 | 1120 | 426 | 302 | 274 |
| 26.... | 156 | 105 | 98 | 92 | 96 | 158 | 318 | 1000 | 1090 | 404 | 418 | 306 |
| 27.... | 158 | 105 | 94 | 90 | 100 | 158 | 346 | 1270 | 978 | 382 | 422 | 322 |
| 28.... | 136 | 110 | 92 | 90 | 105 | 156 | 350 | 1210 | 956 | 368 | 386 | 310 |
| 29.... | 150 | 110 | 94 | 90 | 110 | 136 | 318 | 1420 | 914 | 359 | 350 | 322 |
| 30.... | 136 | 110 | 100 | 90 | ..... | 132 | 290 | 1620 | 861 | 350 | 318 | 318 |
| 31.... | 156 | ..... | 105 | 88 | ..... | 153 | ..... | 1970 | ..... | 346 | 294 | ..... |
| Total | 5751 | 3512 | 3294 | 2956 | 2593 | 4016 | 6442 | 29028 | 44769 | 18514 | 8452 | 8078 |
| Mean. | 186 | 117 | 106 | 95.4 | 89.4 | 130 | 215 | 936 | 1492 | 597 | 273 | 269 |
| Max. | 235 | 158 | 120 | 115 | 110 | 163 | 350 | 1970 | 2440 | 970 | 422 | 322 |
| Min. | 136 | 97 | 92 | 84 | 80 | 105 | 115 | 260 | 861 | 346 | 205 | 242 |
| Ac.-ft. | 11410 | 6970 | 6530 | 5860 | 5140 | 7970 | 12780 | 57580 | 88800 | 36720 | 16760 | 16020 |

Total run-off for water year 1939-40=272,500 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Snake River at Dillon, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| 1..... | 15 | 9.6 | 10 | 10 | 10 | 10 | 9.6 | 112 | 378 | 106 | 30 | 13 |
| 2..... | 16 | 10 | 10 | 10 | 9 | 9 | 11 | 139 | 373 | 106 | 39 | 13 |
| 3..... | 16 | 12 | 9 | 11 | 8 | 10 | 12 | 135 | 391 | 102 | 29 | 11 |
| 4..... | 15 | 11 | 8.9 | 11 | 9 | 9 | 13 | 133 | 418 | 99 | 29 | 11 |
| 5..... | 14 | 10 | 8.9 | 10 | 10 | 10 | 14 | 153 | 432 | 93 | 28 | 11 |
| 6..... | 16 | 9 | 8.9 | 11 | 11 | 9 | 12 | 161 | 386 | 93 | 28 | 11 |
| 7..... | 26 | 9 | 8.9 | 11 | 11 | 10 | 11 | 174 | 355 | 88 | 29 | 11 |
| 8..... | 29 | 9 | 8.9 | 9 | 10 | 11 | 12 | 156 | 327 | 86 | 26 | 13 |
| 9..... | 21 | 10 | 8.9 | 9 | 10 | 10 | 12 | 195 | 315 | 80 | 25 | 9.2 |
| 10..... | 18 | 10 | 9.2 | 10 | 9 | 10 | 11 | 238 | 303 | 75 | 24 | 9.2 |
| 11..... | 13 | 11 | 9.2 | 10 | 9 | 9.2 | 11 | 253 | 287 | 72 | 23 | 10 |
| 12..... | 11 | 11 | 9.6 | 11 | 9 | 8 | 11 | 256 | 287 | 71 | 22 | 11 |
| 13..... | 11 | 10 | 9 | 10 | 10 | 6.4 | 13 | 211 | 307 | 62 | 20 | 9.6 |
| 14..... | 11 | 9 | 8 | 10 | 10 | 5.9 | 14 | 177 | 323 | 50 | 19 | 11 |
| 15..... | 11 | 10 | 9 | 10 | 11 | 6.7 | 14 | 228 | 323 | 46 | 19 | 11 |
| 16..... | 10 | 11 | 9 | 9.6 | 12 | 7.0 | 14 | 253 | 307 | 45 | 18 | 11 |
| 17..... | 11 | 11 | 10 | 10 | 10 | 7.0 | 14 | 231 | 295 | 44 | 18 | 10 |
| 18..... | 11 | 10 | 9 | 9.6 | 10 | 7.5 | 16 | 235 | 260 | 44 | 19 | 10 |
| 19..... | 11 | 11 | 9 | 9.2 | 12 | 8.1 | 14 | 327 | 221 | 40 | 19 | 9.6 |
| 20..... | 11 | 11 | 10 | 9.6 | 11 | 8.4 | 14 | 368 | 198 | 35 | 19 | 9.2 |
| 21..... | 12 | 11 | 10 | 9.6 | 12 | 8.9 | 19 | 382 | 189 | 32 | 20 | 8.9 |
| 22..... | 11 | 10 | 10 | 11 | 12 | 9.2 | 29 | 427 | 183 | 30 | 19 | 8.9 |
| 23..... | 12 | 10 | 9 | 10 | 12 | 11 | 32 | 414 | 180 | 29 | 18 | 8.4 |
| 24..... | 13 | 9 | 10 | 10 | 12 | 11 | 28 | 378 | 180 | 29 | 16 | 8.6 |
| 25..... | 13 | 9 | 10 | 9 | 11 | 11 | 26 | 335 | 183 | 30 | 16 | 8.6 |
| 26..... | 11 | 9 | 10 | 8 | 10 | 11 | 31 | 279 | 169 | 32 | 14 | 9.2 |
| 27..... | 11 | 9 | 9 | 9 | 11 | 11 | 38 | 260 | 141 | 39 | 14 | 9.2 |
| 28..... | 10 | 10 | 9 | 10 | 10 | 9.6 | 59 | 291 | 122 | 34 | 14 | 9.6 |
| 29..... | 10 | 10 | 10 | 11 | ..... | 9.6 | 72 | 335 | 114 | 29 | 14 | 9.6 |
| 30..... | 9.2 | 10 | 10 | 12 | ..... | 9.2 | 86 | 351 | 112 | 38 | 18 | 9.6 |
| 31..... | 9.6 | ..... | 9 | 11 | ..... | 9.6 | ..... | 368 | ..... | 33 | 14 | ..... |
| Total | 418.8 | 301.6 | 289.4 | 311.6 | 291 | 283.3 | 672.6 | 7955 | 8059 | 1792 | 660 | 305.4 |
| Mean. | 13.5 | 10.1 | 9.34 | 10.1 | 10.4 | 9.14 | 22.4 | 257 | 269 | 57.8 | 21.3 | 10.2 |
| Max. | 29 | 12 | 10 | 12 | 12 | 11 | 8.6 | 427 | 432 | 106 | 39 | 43 |
| Min. | 9.2 | 9 | 8 | 8 | 8 | 5.9 | 9.6 | 112 | 112 | 29 | 14 | 8.4 |
| Acre-ft. | 831 | 598 | 574 | 618 | 577 | 562 | 1330 | 15780 | 15980 | 3550 | 1310 | 606 |

Total run-off for water year 1938-39=42,320 acre-feet.

Discharge of Snake River at Dillon, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|------|-------|
| 1..... | 9.6 | 9.6 | 9.8 | 5.4 | 6.4 | 8.0 | 10 | 14 | 344 | 120 | 23 | 13 |
| 2..... | 9.6 | 9.6 | 9.4 | 5.4 | 7.5 | 10 | 8.6 | 16 | 352 | 115 | 23 | 12 |
| 3..... | 13 | 9.6 | 9.0 | 5.2 | 7.8 | 7.5 | 7.8 | 16 | 322 | 111 | 21 | 12 |
| 4..... | 11 | 10 | 9.0 | 6.7 | 7.8 | 8.6 | 7.8 | 16 | 306 | 107 | 20 | 12 |
| 5..... | 8.6 | 9.6 | 8.4 | 5.4 | 7.8 | 8.1 | 8.4 | 17 | 322 | 92 | 19 | 11 |
| 6..... | 8.6 | 9.6 | 8.4 | 5.7 | 8.1 | 7.5 | 8.4 | 14 | 283 | 83 | 19 | 11 |
| 7..... | 8.6 | 10 | 8.0 | 5.6 | 7.8 | 8.9 | 7.5 | 23 | 235 | 82 | 19 | 12 |
| 8..... | 8.6 | 10 | 8.0 | 6.2 | 7.5 | 7.8 | 7.8 | 30 | 222 | 75 | 19 | 14 |
| 9..... | 8.9 | 10 | 8.2 | 6.0 | 7.8 | 7.0 | 8.1 | 32 | 201 | 71 | 18 | 12 |
| 10..... | 8.6 | 9.0 | 8.4 | 6.4 | 7.5 | 6.7 | 7.2 | 52 | 204 | 59 | 17 | 13 |
| 11..... | 8.9 | 8.6 | 7.6 | 6.0 | 7.8 | 6.7 | 7.2 | 69 | 222 | 56 | 16 | 14 |
| 12..... | 8.6 | 9.2 | 7.0 | 5.4 | 7.4 | 6.7 | 12 | 102 | 235 | 56 | 16 | 13 |
| 13..... | 8.9 | 9.6 | 6.0 | 5.4 | 6.4 | 6.4 | 7.8 | 108 | 254 | 49 | 14 | 13 |
| 14..... | 9.6 | 9.8 | 5.8 | 4.8 | 5.8 | 6.6 | 11 | 78 | 294 | 43 | 14 | 12 |
| 15..... | 9.6 | 10 | 6.0 | 4.4 | 6.2 | 7.1 | 12 | 86 | 283 | 47 | 13 | 13 |
| 16..... | 9.6 | 10 | 6.4 | 4.4 | 6.0 | 8.6 | 11 | 108 | 261 | 45 | 13 | 12 |
| 17..... | 9.6 | 9.8 | 6.7 | 4.8 | 5.2 | 7.0 | 10 | 118 | 265 | 45 | 13 | 12 |
| 18..... | 8.9 | 9.2 | 6.4 | 4.2 | 5.8 | 7.2 | 12 | 88 | 248 | 54 | 12 | 12 |
| 19..... | 9.2 | 8.6 | 5.6 | 3.8 | 6.2 | 7.0 | 16 | 78 | 241 | 58 | 12 | 11 |
| 20..... | 9.2 | 9.2 | 6.0 | 4.6 | 6.6 | 6.7 | 18 | 78 | 254 | 47 | 12 | 11 |
| 21..... | 9.6 | 9.6 | 6.2 | 5.0 | 7.0 | 7.5 | 16 | 74 | 261 | 45 | 12 | 10 |
| 22..... | 9.2 | 9.6 | 5.4 | 4.2 | 6.4 | 8.9 | 15 | 56 | 225 | 42 | 12 | 11 |
| 23..... | 9.2 | 10 | 6.0 | 4.6 | 6.8 | 8.9 | 14 | 56 | 195 | 35 | 12 | 9.9 |
| 24..... | 9.6 | 10 | 5.2 | 5.0 | 7.4 | 8.6 | 14 | 64 | 181 | 33 | 12 | 9.9 |
| 25..... | 9.6 | 9.4 | 5.8 | 5.4 | 7.0 | 8.4 | 14 | 75 | 159 | 31 | 13 | 9.5 |
| 26..... | 9.2 | 8.4 | 5.6 | 5.8 | 5.7 | 8.6 | 14 | 86 | 142 | 27 | 13 | 10 |
| 27..... | 10 | 8.4 | 5.2 | 6.2 | 5.2 | 7.8 | 14 | 116 | 134 | 28 | 14 | 9.9 |
| 28..... | 9.0 | 9.2 | 4.8 | 6.6 | 7.8 | 7.0 | 14 | 116 | 124 | 30 | 14 | 10 |
| 29..... | 9.6 | 8.4 | 5.0 | 6.4 | 7.0 | 6.7 | 14 | 152 | 116 | 28 | 15 | 11 |
| 30..... | 8.6 | 8.4 | 5.2 | 6.0 | ..... | 7.2 | 14 | 186 | 120 | 26 | 14 | 12 |
| 31..... | 9.2 | ..... | 5.4 | 5.6 | ..... | 8.6 | ..... | 276 | ..... | 25 | 14 | ..... |
| Total | 290.0 | 282.4 | 209.9 | 166.6 | 199.7 | 238.6 | 341.6 | 2400 | 7005 | 1765 | 478 | 348.2 |
| Mean. | 9.35 | 9.41 | 6.77 | 5.37 | 6.89 | 7.70 | 11.4 | 77.4 | 234 | 56.9 | 15.4 | 11.6 |
| Max. | 13 | 10 | 9.8 | 6.7 | 8.1 | 10 | 18 | 276 | 352 | 120 | 23 | 14 |
| Min. | 8.6 | 8.4 | 4.8 | 3.8 | 5.2 | 6.4 | 7.2 | 14 | 116 | 25 | 12 | 9.5 |
| Acre-ft. | 575 | 560 | 416 | 330 | 396 | 473 | 678 | 4760 | 13890 | 3500 | 948 | 691 |

Total run-off for water year 1939-40=27,220 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ten Mile Creek at Dillon, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 42 | 36 | 34 | 24 | 18 | 19 | 39 | 342 | 639 | 190 | 89 | 49 |
| 2.... | 42 | 36 | 32 | 24 | 16 | 18 | 33 | 371 | 499 | 180 | 89 | 46 |
| 3.... | 43 | 37 | 30 | 25 | 15 | 18 | 35 | 366 | 531 | 170 | 82 | 43 |
| 4.... | 43 | 36 | 31 | 25 | 17 | 18 | 36 | 391 | 639 | 161 | 75 | 38 |
| 5.... | 43 | 38 | 32 | 24 | 18 | 19 | 40 | 474 | 681 | 159 | 59 | 40 |
| 6.... | 44 | 36 | 30 | 23 | 19 | 18 | 39 | 468 | 577 | 151 | 59 | 43 |
| 7.... | 52 | 35 | 29 | 21 | 19 | 19 | 39 | 338 | 493 | 146 | 59 | 44 |
| 8.... | 52 | 34 | 31 | 20 | 17 | 20 | 38 | 319 | 451 | 148 | 59 | 45 |
| 9.... | 45 | 36 | 28 | 21 | 17 | 19 | 36 | 401 | 434 | 148 | 59 | 43 |
| 10.... | 44 | 36 | 30 | 22 | 16 | 21 | 35 | 505 | 396 | 138 | 54 | 40 |
| 11.... | 58 | 37 | 27 | 22 | 16 | 23 | 36 | 505 | 396 | 136 | 51 | 43 |
| 12.... | 49 | 39 | 24 | 23 | 15 | 21 | 37 | 468 | 386 | 126 | 51 | 43 |
| 13.... | 46 | 36 | 22 | 21 | 17 | 22 | 40 | 428 | 417 | 114 | 50 | 40 |
| 14.... | 43 | 34 | 21 | 20 | 16 | 23 | 44 | 499 | 445 | 110 | 48 | 37 |
| 15.... | 44 | 34 | 22 | 19 | 18 | 22 | 43 | 618 | 428 | 106 | 48 | 37 |
| 16.... | 45 | 35 | 23 | 21 | 19 | 24 | 42 | 660 | 391 | 106 | 46 | 41 |
| 17.... | 44 | 36 | 24 | 21 | 17 | 27 | 42 | 583 | 376 | 102 | 44 | 40 |
| 18.... | 40 | 37 | 22 | 22 | 17 | 25 | 43 | 544 | 338 | 92 | 43 | 36 |
| 19.... | 40 | 38 | 24 | 22 | 18 | 26 | 39 | 674 | 281 | 90 | 42 | 33 |
| 20.... | 39 | 35 | 23 | 25 | 21 | 28 | 41 | 765 | 257 | 87 | 40 | 32 |
| 21.... | 40 | 35 | 24 | 30 | 19 | 30 | 48 | 758 | 245 | 81 | 42 | 32 |
| 22.... | 37 | 29 | 25 | 25 | 18 | 31 | 70 | 800 | 238 | 78 | 42 | 32 |
| 23.... | 36 | 28 | 22 | 22 | 18 | 33 | 89 | 793 | 227 | 76 | 40 | 31 |
| 24.... | 35 | 26 | 23 | 19 | 19 | 31 | 87 | 653 | 234 | 69 | 38 | 33 |
| 25.... | 35 | 27 | 22 | 18 | 20 | 33 | 78 | 544 | 238 | 68 | 43 | 36 |
| 26.... | 35 | 30 | 23 | 17 | 18 | 34 | 83 | 456 | 223 | 76 | 42 | 36 |
| 27.... | 35 | 33 | 21 | 18 | 19 | 32 | 110 | 417 | 213 | 90 | 42 | 35 |
| 28.... | 35 | 34 | 22 | 18 | 18 | 31 | 156 | 487 | 206 | 89 | 44 | 34 |
| 29.... | 36 | 30 | 23 | 19 | .... | 30 | 223 | 583 | 199 | 95 | 44 | 38 |
| 30.... | 36 | 32 | 25 | 20 | .... | 33 | 297 | 611 | 203 | 98 | 59 | 35 |
| 31.... | 36 | .... | 23 | 19 | .... | 36 | .... | 625 | .... | 89 | 52 | .... |
| Total | 1294 | 1023 | 792 | 670 | 495 | 784 | 2018 | 16446 | 11281 | 3569 | 1635 | 1155 |
| Mean. | 41.7 | 34.1 | 25.5 | 21.6 | 17.7 | 25.3 | 67.3 | 531 | 376 | 115 | 52.7 | 38.5 |
| Max. | 58 | 39 | 34 | 30 | 21 | 36 | 297 | 800 | 681 | 190 | 89 | 49 |
| Min. | 35 | 26 | 21 | 17 | 15 | 18 | 33 | 319 | 199 | 68 | 38 | 31 |
| Acre-ft. | 2570 | 2030 | 1570 | 1330 | 982 | 1560 | 4000 | 32620 | 22380 | 7080 | 3240 | 2290 |

Total run-off for water year 1938-39=81,650 acre-feet.

Discharge of Tenmile Creek at Dillon, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 32 | 24 | 16 | 15 | 13 | 10 | 38 | 67 | 475 | 188 | 51 | 36 |
| 2.... | 31 | 24 | 16 | 15 | 15 | 11 | 37 | 81 | 505 | 175 | 49 | 34 |
| 3.... | 31 | 27 | 15 | 16 | 15 | 12 | 34 | 110 | 470 | 170 | 45 | 33 |
| 4.... | 31 | 22 | 15 | 16 | 15 | 12 | 34 | 139 | 451 | 163 | 43 | 36 |
| 5.... | 31 | 23 | 16 | 16 | 15 | 12 | 37 | 156 | 415 | 148 | 42 | 32 |
| 6.... | 31 | 24 | 16 | 15 | 16 | 11 | 38 | 151 | 358 | 142 | 41 | 31 |
| 7.... | 31 | 23 | 15 | 14 | 15 | 10 | 35 | 180 | 302 | 135 | 42 | 31 |
| 8.... | 31 | 22 | 15 | 16 | 15 | 11 | 34 | 180 | 283 | 131 | 43 | 34 |
| 9.... | 32 | 19 | 16 | 15 | 14 | 12 | 36 | 216 | 258 | 118 | 41 | 33 |
| 10.... | 30 | 17 | 17 | 16 | 15 | 12 | 40 | 269 | 243 | 93 | 41 | 37 |
| 11.... | 29 | 15 | 18 | 15 | 14 | 11 | 40 | 306 | 262 | 102 | 40 | 42 |
| 12.... | 28 | 17 | 16 | 13 | 13 | 10 | 40 | 330 | 283 | 99 | 37 | 41 |
| 13.... | 28 | 18 | 14 | 13 | 12 | 10 | 42 | 330 | 302 | 88 | 32 | 43 |
| 14.... | 27 | 19 | 13 | 12 | 11 | 13 | 46 | 266 | 318 | 83 | 31 | 38 |
| 15.... | 28 | 19 | 13 | 10 | 12 | 14 | 55 | 269 | 290 | 83 | 34 | 38 |
| 16.... | 27 | 18 | 14 | 10 | 11 | 16 | 50 | 290 | 262 | 90 | 33 | 42 |
| 17.... | 27 | 17 | 16 | 11 | 8 | 15 | 43 | 298 | 266 | 106 | 36 | 37 |
| 18.... | 27 | 15 | 13 | 10 | 9 | 15 | 45 | 280 | 262 | 110 | 34 | 37 |
| 19.... | 25 | 14 | 12 | 8 | 11 | 16 | 54 | 269 | 255 | 118 | 33 | 35 |
| 20.... | 24 | 15 | 13 | 10 | 12 | 20 | 60 | 276 | 258 | 90 | 35 | 34 |
| 21.... | 23 | 16 | 13 | 10 | 12 | 21 | 70 | 258 | 252 | 86 | 36 | 33 |
| 22.... | 23 | 16 | 12 | 8 | 11 | 23 | 72 | 225 | 240 | 86 | 41 | 36 |
| 23.... | 22 | 17 | 13 | 9 | 12 | 25 | 75 | 249 | 228 | 75 | 37 | 37 |
| 24.... | 23 | 17 | 12 | 10 | 12 | 29 | 81 | 280 | 213 | 70 | 41 | 43 |
| 25.... | 23 | 16 | 13 | 11 | 11 | 30 | 80 | 298 | 198 | 66 | 55 | 46 |
| 26.... | 25 | 15 | 13 | 12 | 10 | 31 | 84 | 322 | 185 | 63 | 72 | 52 |
| 27.... | 24 | 15 | 12 | 13 | 11 | 31 | 91 | 302 | 178 | 62 | 67 | 59 |
| 28.... | 22 | 16 | 11 | 14 | 10 | 31 | 86 | 290 | 168 | 59 | 56 | 49 |
| 29.... | 23 | 15 | 12 | 13 | 10 | 31 | 75 | 338 | 160 | 57 | 49 | 46 |
| 30.... | 21 | 15 | 13 | 13 | .... | 33 | 67 | 362 | 163 | 57 | 42 | 45 |
| 31.... | 23 | .... | 14 | 12 | .... | 36 | .... | 438 | .... | 56 | 38 | .... |
| Total | 833 | 550 | 437 | 391 | 360 | 574 | 1619 | 7825 | 8503 | 3169 | 1317 | 1170 |
| Mean. | 26.9 | 18.3 | 14.1 | 12.6 | 12.4 | 18.5 | 54.0 | 252 | 283 | 102 | 42.5 | 39.0 |
| Max. | 32 | 27 | 18 | 16 | 16 | 36 | 91 | 438 | 505 | 188 | 72 | 59 |
| Min. | 21 | 14 | 11 | 8 | 8 | 10 | 34 | 67 | 160 | 56 | 31 | 31 |
| Acre-ft. | 1650 | 1090 | 867 | 776 | 714 | 1140 | 3210 | 15520 | 16870 | 6290 | 2610 | 2320 |

Total run-off for water year 1939-40=53,060 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Roaring Fork at Aspen, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 38 | 39 | 39 | 26 | 24 | 24 | 35 | 291 | 479 | 118 | 31 | 15 |
| 2.... | 38 | 40 | 38 | 26 | 22 | 24 | 38 | 341 | 375 | 111 | 27 | 14 |
| 3.... | 38 | 37 | 37 | 26 | 24 | 25 | 43 | 316 | 383 | 97 | 27 | 12 |
| 4.... | 42 | 42 | 38 | 27 | 25 | 26 | 48 | 310 | 423 | 85 | 24 | 11 |
| 5.... | 42 | 43 | 37 | 27 | 24 | 25 | 49 | 330 | 475 | 82 | 22 | 11 |
| 6.... | 43 | 39 | 37 | 27 | 23 | 26 | 50 | 320 | 415 | 78 | 21 | 17 |
| 7.... | 60 | 38 | 36 | 28 | 23 | 27 | 48 | 244 | 348 | 73 | 26 | 23 |
| 8.... | 68 | 40 | 36 | 27 | 23 | 28 | 54 | 207 | 327 | 72 | 23 | 22 |
| 9.... | 60 | 40 | 37 | 26 | 24 | 28 | 60 | 231 | 313 | 68 | 21 | 21 |
| 10.... | 55 | 38 | 37 | 25 | 23 | 28 | 52 | 306 | 292 | 63 | 20 | 15 |
| 11.... | 50 | 38 | 37 | 24 | 24 | 27 | 50 | 348 | 320 | 62 | 18 | 18 |
| 12.... | 50 | 38 | 36 | 24 | 25 | 26 | 52 | 344 | 310 | 57 | 16 | 17 |
| 13.... | 50 | 38 | 34 | 25 | 24 | 25 | 61 | 310 | 310 | 52 | 15 | 18 |
| 14.... | 50 | 39 | 28 | 25 | 23 | 26 | 68 | 341 | 355 | 50 | 14 | 16 |
| 15.... | 55 | 40 | 31 | 24 | 25 | 25 | 61 | 403 | 327 | 47 | 14 | 14 |
| 16.... | 62 | 41 | 33 | 26 | 24 | 28 | 54 | 391 | 292 | 46 | 13 | 14 |
| 17.... | 61 | 43 | 31 | 25 | 22 | 28 | 47 | 363 | 271 | 41 | 12 | 13 |
| 18.... | 50 | 42 | 30 | 26 | 23 | 28 | 44 | 371 | 231 | 40 | 19 | 11 |
| 19.... | 49 | 42 | 31 | 26 | 25 | 29 | 50 | 447 | 196 | 38 | 20 | 11 |
| 20.... | 44 | 42 | 30 | 26 | 24 | 30 | 50 | 507 | 172 | 36 | 19 | 10 |
| 21.... | 40 | 41 | 31 | 27 | 23 | 32 | 60 | 479 | 160 | 32 | 14 | 10 |
| 22.... | 40 | 40 | 31 | 26 | 22 | 35 | 88 | 479 | 157 | 27 | 15 | 10 |
| 23.... | 38 | 38 | 31 | 26 | 23 | 37 | 124 | 491 | 162 | 26 | 14 | 10 |
| 24.... | 38 | 36 | 27 | 23 | 24 | 36 | 102 | 423 | 160 | 26 | 13 | 10 |
| 25.... | 38 | 38 | 25 | 22 | 25 | 37 | 90 | 375 | 155 | 24 | 13 | 10 |
| 26.... | 37 | 36 | 26 | 22 | 25 | 37 | 92 | 324 | 146 | 25 | 12 | 11 |
| 27.... | 38 | 37 | 25 | 23 | 24 | 39 | 102 | 320 | 136 | 27 | 13 | 10 |
| 28.... | 38 | 38 | 25 | 25 | 24 | 36 | 152 | 371 | 128 | 30 | 16 | 11 |
| 29.... | 38 | 37 | 24 | 25 | ... | 34 | 225 | 431 | 122 | 35 | 16 | 14 |
| 30.... | 39 | 38 | 25 | 24 | ... | 32 | 273 | 503 | 120 | 51 | 19 | 12 |
| 31.... | 39 | ... | 25 | 25 | ... | 31 | ... | 459 | ... | 40 | 16 | ... |
| Total | 1428 | 1178 | 988 | 784 | 664 | 919 | 2322 | 11376 | 8060 | 1659 | 563 | 411 |
| Mean. | 46.1 | 39.3 | 31.9 | 25.3 | 23.7 | 29.6 | 77.4 | 367 | 269 | 53.5 | 18.2 | 13.7 |
| Max.. | 68 | 43 | 39 | 28 | 25 | 39 | 273 | 507 | 479 | 118 | 31 | 23 |
| Min.. | 37 | 36 | 24 | 22 | 22 | 24 | 35 | 207 | 120 | 24 | 12 | 10 |
| Acre-ft. | 2850 | 2340 | 1960 | 1560 | 1320 | 1820 | 4610 | 22560 | 15990 | 3290 | 1120 | 815 |

Total run-off for water year 1938-39=60,220 acre-feet.

Discharge of Roaring Fork River at Aspen, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|------|------|------|------|------|-------|-------|-------|-------|-------|
| 1.... | 12 | 11 | 16 | 16 | 16 | 16 | 23 | 59 | 387 | 71 | 8.0 | 6.2 |
| 2.... | 11 | 11 | 16 | 18 | 16 | 15 | 23 | 68 | 391 | 67 | 7.4 | 5.7 |
| 3.... | 11 | 11 | 16 | 18 | 17 | 15 | 21 | 90 | 363 | 60 | 6.2 | 5.7 |
| 4.... | 11 | 10 | 16 | 18 | 16 | 14 | 21 | 126 | 327 | 56 | 7.2 | 6.0 |
| 5.... | 11 | 11 | 16 | 19 | 16 | 15 | 24 | 136 | 288 | 51 | 7.7 | 5.7 |
| 6.... | 11 | 12 | 16 | 20 | 16 | 16 | 24 | 122 | 260 | 50 | 7.4 | 5.5 |
| 7.... | 10 | 11 | 15 | 20 | 16 | 15 | 23 | 151 | 212 | 44 | 9.0 | 5.7 |
| 8.... | 10 | 9.3 | 16 | 21 | 16 | 15 | 21 | 142 | 204 | 37 | 8.7 | 6.2 |
| 9.... | 11 | 10 | 15 | 23 | 16 | 15 | 22 | 164 | 167 | 35 | 7.7 | 6.2 |
| 10.... | 10 | 7.4 | 14 | 23 | 16 | 16 | 22 | 212 | 149 | 34 | 15 | 6.2 |
| 11.... | 10 | 7.7 | 14 | 22 | 17 | 16 | 20 | 250 | 160 | 31 | 14 | 6.0 |
| 12.... | 10 | 11 | 16 | 23 | 16 | 15 | 19 | 268 | 169 | 27 | 7.4 | 5.7 |
| 13.... | 10 | 19 | 15 | 22 | 16 | 15 | 22 | 285 | 190 | 24 | 4.8 | 7.4 |
| 14.... | 10 | 20 | 14 | 20 | 16 | 15 | 26 | 224 | 212 | 23 | 3.7 | 12 |
| 15.... | 11 | 19 | 14 | 18 | 16 | 15 | 33 | 218 | 185 | 22 | 3.2 | 11 |
| 16.... | 11 | 18 | 16 | 18 | 16 | 16 | 36 | 257 | 157 | 24 | 3.3 | 11 |
| 17.... | 11 | 18 | 18 | 18 | 14 | 16 | 31 | 285 | 167 | 25 | 3.6 | 11 |
| 18.... | 11 | 17 | 17 | 17 | 14 | 16 | 28 | 207 | 157 | 26 | 3.4 | 22 |
| 19.... | 12 | 17 | 16 | 16 | 15 | 16 | 39 | 185 | 146 | 24 | 3.6 | 22 |
| 20.... | 12 | 16 | 15 | 17 | 15 | 16 | 55 | 180 | 138 | 22 | 6.0 | 20 |
| 21.... | 12 | 17 | 15 | 15 | 14 | 17 | 67 | 164 | 132 | 19 | 7.7 | 18 |
| 22.... | 10 | 17 | 15 | 14 | 16 | 18 | 75 | 151 | 134 | 16 | 8.4 | 28 |
| 23.... | 8.4 | 18 | 15 | 14 | 16 | 19 | 76 | 172 | 117 | 15 | 8.4 | 37 |
| 24.... | 8.0 | 18 | 16 | 14 | 16 | 21 | 85 | 201 | 108 | 15 | 12 | 48 |
| 25.... | 8.4 | 18 | 17 | 15 | 16 | 22 | 83 | 212 | 93 | 13 | 33 | 47 |
| 26.... | 9.0 | 17 | 17 | 16 | 16 | 23 | 93 | 231 | 83 | 10 | 48 | 44 |
| 27.... | 9.3 | 16 | 16 | 17 | 16 | 24 | 108 | 254 | 78 | 9.6 | 50 | 42 |
| 28.... | 6.0 | 17 | 14 | 17 | 16 | 23 | 83 | 274 | 71 | 11 | 41 | 39 |
| 29.... | 8.7 | 16 | 13 | 16 | 16 | 21 | 72 | 310 | 66 | 11 | 27 | 40 |
| 30.... | 7.4 | 17 | 14 | 15 | ... | 20 | 66 | 302 | 64 | 10 | 18 | 40 |
| 31.... | 12 | ... | 15 | 15 | ... | 21 | ... | 344 | ... | 9.0 | 9.3 | ... |
| Total | 315.2 | 437.4 | 478 | 555 | 458 | 537 | 1341 | 6244 | 5375 | 891.6 | 400.1 | 570.2 |
| Mean. | 10.2 | 14.6 | 15.4 | 17.9 | 15.8 | 17.3 | 44.7 | 201 | 179 | 28.8 | 12.9 | 19.0 |
| Max.. | 12 | 20 | 18 | 23 | 17 | 24 | 108 | 344 | 391 | 71 | 50 | 48 |
| Min.. | 6.0 | 7.4 | 13 | 14 | 14 | 14 | 19 | 59 | 64 | 9.0 | 3.2 | 5.5 |
| Acre-ft. | 625 | 868 | 948 | 1100 | 908 | 1070 | 2660 | 12380 | 10660 | 1770 | 794 | 1130 |

Total run-off for water year 1939-40=34,910 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Correction Table for Roaring Fork at Aspen, Colorado, for Diversions by Twin Lakes Tunnel,
for Water Year October 1, 1938, to September 30, 1939.**

| Month | Runoff in Acre-Feet | Diversified by Twin Lakes Tunnel Acre-Feet | Corrected for Diversion Acre-Feet |
|---|------------------------|--|---|
| October | 2830 | 679 | 3510 |
| November | 2340 | 361 | 2700 |
| December | 1960 | 518 | 2480 |
| January | 1560 | 391 | 1950 |
| February | 1320 | 522 | 1840 |
| March | 1820 | 0 | 1820 |
| April | 4610 | 46 | 4660 |
| May | 22560 | 15100 | 37660 |
| June | 15990 | 14900 | 30890 |
| July | 3290 | 3710 | 7000 |
| August | 1120 | 559 | 1680 |
| September | 815 | 274 | 1090 |
| Total run-off for water year 1938-1939..... | 60220 | 37050 | 97280 |

For Water Year October 1, 1939, to September 30, 1940.

| | | | |
|---|-------|-------|-------|
| October | 625 | 290 | 915 |
| November | 868 | 130 | 998 |
| December | 948 | 29 | 977 |
| January | 1100 | 32 | 1130 |
| February | 908 | 41 | 949 |
| March | 1070 | 51 | 1120 |
| April | 2660 | 451 | 3110 |
| May | 12380 | 8960 | 21340 |
| June | 10660 | 13510 | 24170 |
| July | 1770 | 2380 | 4150 |
| August | 794 | 90 | 884 |
| September | 1130 | 1080 | 2210 |
| Total run-off for water year 1939-1940..... | 34910 | 27040 | 61950 |

Discharge of Roaring Fork River at Glenwood Springs, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|
| 1.... | 624 | 562 | 554 | 430 | 366 | 319 | 530 | 2380 | 5270 | 1750 | 740 | 422 |
| 2.... | 615 | 597 | 530 | 460 | 280 | 306 | 588 | 2660 | 4100 | 1700 | 651 | 422 |
| 3.... | 651 | 588 | 506 | 482 | 268 | 338 | 651 | 2730 | 3850 | 1630 | 615 | 408 |
| 4.... | 642 | 597 | 514 | 482 | 359 | 345 | 710 | 2840 | 4440 | 1590 | 579 | 401 |
| 5.... | 642 | 633 | 506 | 380 | 422 | 326 | 770 | 3130 | 5120 | 1530 | 562 | 415 |
| 6.... | 660 | 588 | 506 | 490 | 394 | 300 | 780 | 3360 | 4840 | 1490 | 570 | 597 |
| 7.... | 690 | 546 | 490 | 438 | 408 | 326 | 720 | 2760 | 4220 | 1390 | 670 | 1110 |
| 8.... | 790 | 562 | 498 | 430 | 373 | 359 | 690 | 2370 | 3920 | 1310 | 633 | 970 |
| 9.... | 800 | 606 | 490 | 460 | 387 | 332 | 780 | 2510 | 3670 | 1280 | 588 | 1010 |
| 10.... | 760 | 615 | 490 | 415 | 306 | 352 | 760 | 3070 | 3270 | 1220 | 538 | 800 |
| 11.... | 740 | 624 | 498 | 401 | 366 | 352 | 700 | 3450 | 3580 | 1180 | 514 | 926 |
| 12.... | 730 | 615 | 490 | 430 | 345 | 319 | 690 | 3450 | 3490 | 1120 | 468 | 981 |
| 13.... | 720 | 538 | 475 | 415 | 373 | 338 | 740 | 2980 | 3880 | 1050 | 438 | 915 |
| 14.... | 710 | 546 | 366 | 408 | 366 | 366 | 800 | 2980 | 4240 | 1010 | 415 | 830 |
| 15.... | 720 | 562 | 475 | 366 | 387 | 319 | 800 | 3670 | 4120 | 937 | 394 | 750 |
| 16.... | 740 | 597 | 570 | 430 | 366 | 352 | 760 | 3780 | 3630 | 915 | 387 | 700 |
| 17.... | 760 | 606 | 514 | 394 | 293 | 359 | 700 | 3600 | 3520 | 860 | 380 | 670 |
| 18.... | 750 | 570 | 401 | 401 | 300 | 373 | 651 | 3560 | 2910 | 800 | 359 | 606 |
| 19.... | 690 | 562 | 506 | 401 | 387 | 394 | 700 | 4080 | 2410 | 740 | 359 | 562 |
| 20.... | 651 | 579 | 498 | 394 | 359 | 430 | 710 | 4680 | 2100 | 710 | 338 | 538 |
| 21.... | 624 | 570 | 490 | 408 | 345 | 468 | 790 | 4680 | 1960 | 651 | 345 | 546 |
| 22.... | 606 | 546 | 475 | 401 | 319 | 498 | 1050 | 4840 | 1900 | 615 | 338 | 522 |
| 23.... | 597 | 522 | 452 | 401 | 319 | 546 | 1360 | 4960 | 2080 | 579 | 326 | 514 |
| 24.... | 579 | 438 | 380 | 332 | 373 | 554 | 1320 | 4400 | 2180 | 562 | 319 | 506 |
| 25.... | 570 | 546 | 387 | 306 | 359 | 579 | 1140 | 3880 | 2180 | 546 | 312 | 506 |
| 26.... | 562 | 475 | 475 | 312 | 352 | 588 | 1080 | 3270 | 2060 | 538 | 312 | 514 |
| 27.... | 546 | 506 | 380 | 359 | 366 | 624 | 1210 | 3110 | 1970 | 546 | 312 | 514 |
| 28.... | 546 | 506 | 452 | 460 | 306 | 579 | 1520 | 3310 | 1940 | 670 | 338 | 530 |
| 29.... | 538 | 506 | 475 | 430 | .... | 538 | 2040 | 4000 | 1880 | 730 | 387 | 624 |
| 30.... | 538 | 538 | 460 | 387 | .... | 514 | 2240 | 4900 | 1810 | 800 | 430 | 624 |
| 31.... | 554 | .... | 438 | 430 | .... | 498 | .... | 4620 | .... | 830 | 438 | .... |
| Total | 20345 | 16846 | 14741 | 12733 | 9844 | 12891 | 27881 | 110010 | 96540 | 31273 | 14055 | 19451 |
| Mean. | 656 | 562 | 476 | 411 | 352 | 416 | 933 | 3549 | 3218 | 1009 | 453 | 648 |
| Max. | 800 | 633 | 570 | 490 | 422 | 624 | 2240 | 4960 | 5270 | 1750 | 740 | 1110 |
| Min. | 538 | 438 | 366 | 306 | 268 | 300 | 530 | 2370 | 1810 | 538 | 312 | 401 |
| Acre-ft. | 40350 | 33410 | 29240 | 25260 | 19530 | 25570 | 55500 | 218200 | 191500 | 62040 | 27880 | 38580 |

Total run-off for water year 1938-39=767,100 acre-feet.

Discharge of Roaring Fork River at Glenwood Springs, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|
| 1.... | 615 | 475 | 366 | 359 | 326 | 319 | 422 | 915 | 4540 | 1460 | 326 | 482 |
| 2.... | 597 | 490 | 359 | 326 | 326 | 306 | 452 | 882 | 4520 | 1430 | 300 | 460 |
| 3.... | 597 | 482 | 359 | 352 | 312 | 300 | 415 | 1110 | 4340 | 1360 | 280 | 452 |
| 4.... | 606 | 475 | 359 | 326 | 306 | 286 | 380 | 1670 | 3880 | 1270 | 262 | 438 |
| 5.... | 606 | 475 | 359 | 326 | 300 | 293 | 394 | 1990 | 3600 | 1180 | 250 | 422 |
| 6.... | 597 | 475 | 352 | 319 | 268 | 306 | 415 | 1850 | 3270 | 1110 | 250 | 394 |
| 7.... | 588 | 475 | 352 | 312 | 312 | 293 | 408 | 2030 | 2650 | 1020 | 256 | 380 |
| 8.... | 588 | 475 | 352 | 268 | 280 | 286 | 373 | 1970 | 2630 | 981 | 262 | 359 |
| 9.... | 615 | 475 | 352 | 345 | 300 | 293 | 366 | 2310 | 2230 | 926 | 238 | 366 |
| 10.... | 597 | 475 | 345 | 332 | 300 | 300 | 373 | 2810 | 1900 | 882 | 226 | 380 |
| 11.... | 579 | 468 | 345 | 326 | 293 | 332 | 359 | 3070 | 1960 | 850 | 256 | 373 |
| 12.... | 570 | 468 | 338 | 326 | 293 | 300 | 326 | 3150 | 2230 | 790 | 268 | 352 |
| 13.... | 554 | 468 | 286 | 326 | 256 | 262 | 338 | 3540 | 2550 | 730 | 244 | 422 |
| 14.... | 546 | 468 | 306 | 293 | 268 | 262 | 387 | 3060 | 3000 | 670 | 244 | 514 |
| 15.... | 530 | 468 | 319 | 232 | 322 | 293 | 475 | 2860 | 3020 | 642 | 244 | 498 |
| 16.... | 522 | 452 | 338 | 232 | 293 | 312 | 546 | 3070 | 2460 | 633 | 232 | 530 |
| 17.... | 522 | 422 | 338 | 326 | 244 | 332 | 546 | 3360 | 2600 | 642 | 226 | 562 |
| 18.... | 514 | 401 | 345 | 359 | 268 | 319 | 498 | 2650 | 2660 | 660 | 220 | 750 |
| 19.... | 506 | 380 | 274 | 256 | 319 | 326 | 554 | 2280 | 2510 | 633 | 256 | 970 |
| 20.... | 498 | 359 | 268 | 326 | 286 | 332 | 730 | 2320 | 2440 | 615 | 256 | 992 |
| 21.... | 498 | 380 | 326 | 394 | 262 | 338 | 926 | 2280 | 2270 | 562 | 280 | 915 |
| 22.... | 490 | 373 | 300 | 319 | 300 | 352 | 1070 | 1990 | 2310 | 530 | 326 | 1020 |
| 23.... | 475 | 373 | 326 | 293 | 293 | 380 | 1120 | 1980 | 2110 | 506 | 319 | 1040 |
| 24.... | 460 | 380 | 319 | 245 | 300 | 408 | 1270 | 2310 | 2020 | 468 | 345 | 1000 |
| 25.... | 460 | 380 | 326 | 255 | 286 | 445 | 1300 | 2580 | 1790 | 452 | 452 | 970 |
| 26.... | 482 | 373 | 332 | 280 | 300 | 475 | 1210 | 2700 | 1710 | 438 | 624 | 926 |
| 27.... | 490 | 380 | 268 | 330 | 300 | 490 | 1370 | 2930 | 1560 | 415 | 770 | 882 |
| 28.... | 482 | 373 | 250 | 350 | 306 | 490 | 1280 | 3060 | 1530 | 401 | 750 | 830 |
| 29.... | 468 | 366 | 256 | 338 | 319 | 438 | 1120 | 3520 | 1480 | 408 | 660 | 904 |
| 30.... | 468 | 359 | 359 | 338 | .... | 401 | 530 | 3630 | 1420 | 394 | 579 | 959 |
| 31.... | 468 | .... | 401 | 338 | .... | 408 | .... | 4120 | .... | 373 | 530 | .... |
| Total | 16588 | 12863 | 10175 | 9747 | 8548 | 10677 | 19953 | 77997 | 77190 | 23431 | 10731 | 19542 |
| Mean. | 535 | 429 | 328 | 314 | 295 | 344 | 665 | 2516 | 2573 | 756 | 346 | 651 |
| Max. | 615 | 490 | 401 | 394 | 332 | 490 | 1370 | 4120 | 4540 | 1460 | 770 | 1040 |
| Min. | 460 | 359 | 250 | 232 | 244 | 262 | 326 | 882 | 1420 | 373 | 220 | 352 |
| Ac.-ft. | 32900 | 25510 | 20180 | 19330 | 16950 | 21180 | 39580 | 154700 | 153100 | 46470 | 21280 | 38760 |

Total run-off for water year 1939-40=589,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Crystal River Near Redstone, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|-------|-------|------|-------|
| 1.... | 116 | 124 | 102 | 91 | 66 | 62 | 130 | 699 | 1570 | 526 | 139 | 84 |
| 2.... | 120 | 124 | 99 | 90 | 51 | 62 | 139 | 776 | 1260 | 512 | 133 | 80 |
| 3.... | 120 | 130 | 96 | 91 | 66 | 66 | 162 | 809 | 1300 | 482 | 126 | 73 |
| 4.... | 120 | 123 | 102 | 91 | 72 | 66 | 177 | 899 | 1530 | 470 | 120 | 68 |
| 5.... | 118 | 116 | 102 | 93 | 70 | 60 | 208 | 1010 | 1810 | 466 | 113 | 74 |
| 6.... | 126 | 108 | 99 | 94 | 67 | 58 | 208 | 1010 | 1640 | 450 | 110 | 280 |
| 7.... | 135 | 97 | 97 | 97 | 67 | 64 | 191 | 752 | 1350 | 410 | 135 | 493 |
| 8.... | 164 | 105 | 99 | 96 | 67 | 66 | 188 | 685 | 1300 | 382 | 120 | 303 |
| 9.... | 153 | 113 | 99 | 91 | 68 | 66 | 208 | 792 | 1210 | 368 | 110 | 286 |
| 10.... | 151 | 113 | 99 | 90 | 64 | 66 | 183 | 1020 | 1010 | 350 | 104 | 216 |
| 11.... | 148 | 116 | 100 | 88 | 69 | 64 | 164 | 1140 | 1190 | 340 | 97 | 325 |
| 12.... | 144 | 115 | 99 | 90 | 70 | 62 | 159 | 1060 | 1230 | 325 | 93 | 350 |
| 13.... | 144 | 102 | 96 | 90 | 69 | 69 | 172 | 872 | 1420 | 307 | 88 | 268 |
| 14.... | 142 | 104 | 76 | 90 | 66 | 72 | 188 | 908 | 1610 | 289 | 87 | 214 |
| 15.... | 153 | 108 | 90 | 90 | 67 | 68 | 177 | 1130 | 1480 | 286 | 81 | 172 |
| 16.... | 157 | 112 | 100 | 84 | 67 | 76 | 169 | 1080 | 1260 | 268 | 79 | 142 |
| 17.... | 172 | 113 | 90 | 79 | 62 | 76 | 159 | 1020 | 1190 | 259 | 78 | 128 |
| 18.... | 164 | 112 | 88 | 79 | 63 | 75 | 151 | 1040 | 854 | 239 | 75 | 115 |
| 19.... | 155 | 112 | 93 | 79 | 70 | 76 | 162 | 1340 | 671 | 214 | 72 | 107 |
| 20.... | 142 | 112 | 91 | 78 | 67 | 87 | 166 | 1430 | 579 | 214 | 70 | 97 |
| 21.... | 139 | 110 | 94 | 76 | 66 | 97 | 214 | 1420 | 574 | 200 | 73 | 97 |
| 22.... | 137 | 108 | 94 | 78 | 63 | 110 | 289 | 1490 | 632 | 186 | 74 | 97 |
| 23.... | 131 | 104 | 94 | 76 | 64 | 130 | 358 | 1540 | 768 | 162 | 70 | 97 |
| 24.... | 128 | 87 | 81 | 61 | 68 | 135 | 334 | 1390 | 768 | 151 | 66 | 112 |
| 25.... | 128 | 110 | 84 | 62 | 66 | 137 | 298 | 1170 | 720 | 140 | 66 | 110 |
| 26.... | 120 | 87 | 88 | 63 | 66 | 151 | 289 | 1010 | 664 | 135 | 67 | 110 |
| 27.... | 112 | 93 | 80 | 70 | 63 | 151 | 328 | 1100 | 657 | 144 | 70 | 104 |
| 28.... | 108 | 94 | 82 | 74 | 62 | 135 | 450 | 1210 | 644 | 225 | 80 | 108 |
| 29.... | 105 | 90 | 84 | 73 | .... | 126 | 584 | 1540 | 602 | 183 | 116 | 124 |
| 30.... | 105 | 100 | 82 | 69 | .... | 120 | 632 | 1650 | 557 | 164 | 105 | 110 |
| 31.... | 108 | .... | 88 | 69 | .... | 121 | .... | 1580 | .... | 148 | 91 | .... |
| Total | 4165 | 3242 | 2868 | 2542 | 1846 | 2774 | 7237 | 34572 | 32120 | 8995 | 2908 | 4885 |
| Mean. | 134 | 108 | 92.5 | 82.0 | 65.9 | 89.5 | 241 | 1115 | 1071 | 290 | 93.8 | 163 |
| Max.. | 172 | 130 | 102 | 97 | 72 | 151 | 632 | 1650 | 1640 | 526 | 139 | 403 |
| Min.. | 105 | 87 | 76 | 61 | 51 | 58 | 130 | 685 | 557 | 135 | 66 | 68 |
| Acre-ft. | 8260 | 6430 | 5690 | 5040 | 3660 | 5500 | 14350 | 68570 | 63710 | 17840 | 5770 | 9690 |

Total run-off for water year 1938-39=214,500 acre-feet.

Discharge of Crystal River Near Redstone, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|-------|-------|------|-------|
| 1.... | 104 | 97 | 70 | 64 | 64 | 63 | 102 | 289 | 1650 | 450 | 93 | 100 |
| 2.... | 97 | 97 | 70 | 61 | 64 | 62 | 105 | 328 | 1760 | 400 | 91 | 115 |
| 3.... | 96 | 97 | 68 | 64 | 62 | 57 | 97 | 442 | 1620 | 378 | 86 | 104 |
| 4.... | 107 | 94 | 68 | 62 | 61 | 53 | 93 | 626 | 1520 | 361 | 83 | 90 |
| 5.... | 102 | 94 | 68 | 64 | 58 | 56 | 99 | 845 | 1370 | 344 | 79 | 76 |
| 6.... | 102 | 94 | 67 | 64 | 56 | 60 | 108 | 713 | 1150 | 319 | 78 | 70 |
| 7.... | 99 | 93 | 68 | 60 | 62 | 57 | 107 | 818 | 971 | 319 | 93 | 69 |
| 8.... | 100 | 91 | 68 | 57 | 55 | 58 | 102 | 800 | 962 | 310 | 83 | 66 |
| 9.... | 105 | 88 | 67 | 66 | 60 | 57 | 99 | 1020 | 713 | 280 | 76 | 86 |
| 10.... | 100 | 87 | 67 | 63 | 60 | 57 | 99 | 1280 | 620 | 262 | 75 | 99 |
| 11.... | 99 | 83 | 68 | 62 | 58 | 62 | 94 | 1350 | 800 | 244 | 76 | 87 |
| 12.... | 96 | 83 | 69 | 64 | 56 | 54 | 86 | 1340 | 1010 | 228 | 74 | 83 |
| 13.... | 93 | 83 | 67 | 61 | 50 | 53 | 88 | 1410 | 1130 | 214 | 72 | 108 |
| 14.... | 90 | 83 | 68 | 56 | 63 | 51 | 108 | 1290 | 1270 | 205 | 67 | 115 |
| 15.... | 88 | 80 | 66 | 46 | 61 | 54 | 142 | 1300 | 1270 | 202 | 64 | 107 |
| 16.... | 100 | 79 | 68 | 47 | 56 | 61 | 157 | 1370 | 1070 | 202 | 62 | 105 |
| 17.... | 110 | 79 | 68 | 58 | 50 | 66 | 142 | 1290 | 1100 | 216 | 58 | 121 |
| 18.... | 108 | 76 | 66 | 60 | 55 | 63 | 140 | 962 | 1160 | 200 | 57 | 274 |
| 19.... | 105 | 75 | 54 | 51 | 61 | 63 | 194 | 935 | 1110 | 177 | 78 | 322 |
| 20.... | 104 | 73 | 54 | 63 | 53 | 66 | 280 | 1010 | 980 | 159 | 87 | 337 |
| 21.... | 102 | 75 | 57 | 66 | 51 | 69 | 361 | 953 | 863 | 146 | 87 | 289 |
| 22.... | 102 | 74 | 55 | 54 | 56 | 78 | 414 | 752 | 836 | 142 | 94 | 347 |
| 23.... | 99 | 75 | 57 | 52 | 55 | 91 | 450 | 872 | 760 | 131 | 81 | 316 |
| 24.... | 99 | 75 | 58 | 50 | 55 | 107 | 499 | 1090 | 706 | 130 | 108 | 289 |
| 25.... | 97 | 74 | 58 | 54 | 54 | 124 | 470 | 1210 | 620 | 121 | 144 | 256 |
| 26.... | 110 | 73 | 58 | 59 | 56 | 130 | 462 | 1220 | 574 | 120 | 200 | 242 |
| 27.... | 108 | 72 | 47 | 60 | 58 | 128 | 499 | 1280 | 530 | 113 | 216 | 219 |
| 28.... | 100 | 72 | 50 | 61 | 61 | 124 | 446 | 1390 | 526 | 128 | 200 | 208 |
| 29.... | 99 | 72 | 60 | 58 | 63 | 105 | 378 | 1530 | 494 | 126 | 180 | 283 |
| 30.... | 97 | 69 | 66 | 61 | .... | 96 | 325 | 1580 | 474 | 108 | 148 | 307 |
| 31.... | 97 | .... | 70 | 66 | .... | 97 | .... | 1680 | .... | 99 | 121 | .... |
| Total | 3115 | 2457 | 1965 | 1834 | 1674 | 2322 | 6746 | 32975 | 29669 | 6834 | 3111 | 5290 |
| Mean. | 100 | 81.9 | 63.4 | 59.2 | 57.7 | 74.9 | 225 | 1064 | 989 | 220 | 100 | 176 |
| Max.. | 110 | 97 | 70 | 66 | 64 | 130 | 499 | 1680 | 1760 | 450 | 216 | 347 |
| Min.. | 88 | 69 | 47 | 46 | 50 | 51 | 86 | 289 | 474 | 99 | 57 | 66 |
| Acre-ft. | 6180 | 4870 | 3900 | 3640 | 3320 | 4610 | 13380 | 65400 | 58850 | 13560 | 6170 | 10490 |

Total run-off for water year 1939-40=194,400 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of West Divide Creek Below Willow Creek Near Raven, Colo., for Year Ending
Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|-------|------|------|------|------|------|-------|
| 1.... | 0.7 | 1.5 | 2.1 | 1.8 | .... | 1.2 | 17 | 157 | 96 | 12 | 1.4 | 0.4 |
| 2.... | 0.7 | 1.6 | 1.4 | 1.8 | .... | 1.2 | 26 | 157 | 84 | 9.4 | 0.8 | 0.4 |
| 3.... | 0.7 | 1.8 | 1.4 | 1.6 | .... | 1.3 | 29 | 162 | 76 | 8.8 | 0.5 | 0.2 |
| 4.... | 0.6 | 1.9 | 2.1 | 1.5 | .... | 1.3 | 31 | 169 | 78 | 6.4 | 0.3 | 0.1 |
| 5.... | 0.6 | 1.8 | 1.6 | 1.8 | .... | 1.3 | 40 | 183 | 76 | 5.8 | 0.2 | 0.1 |
| 6.... | 0.8 | 1.7 | 1.4 | 1.7 | .... | 1.3 | 38 | 183 | 65 | 3.6 | 0.4 | 0.9 |
| 7.... | 1.0 | 1.6 | 1.4 | 1.2 | .... | 1.3 | 31 | 162 | 61 | 3.4 | 3.4 | 1.8 |
| 8.... | 1.2 | 3.0 | 2.1 | 1.2 | .... | 1.4 | 31 | 159 | 56 | 3.4 | 1.1 | 1.0 |
| 9.... | 2.1 | 2.7 | 1.8 | 1.2 | .... | 1.4 | 36 | 169 | 50 | 3.2 | 0.7 | 0.9 |
| 10.... | 2.3 | 2.5 | 1.7 | 1.0 | .... | 1.4 | 31 | 176 | 51 | 3.0 | 0.4 | 0.6 |
| 11.... | 1.7 | 2.1 | 1.5 | 1.0 | .... | 1.4 | 22 | 174 | 51 | 2.7 | 0.3 | 0.7 |
| 12.... | 1.6 | 2.1 | 1.5 | 1.4 | .... | 1.5 | 31 | 157 | 51 | 2.3 | 0.2 | 1.2 |
| 13.... | 1.5 | 1.7 | 1.4 | 1.4 | .... | 1.5 | 38 | 185 | 50 | 1.8 | 0.1 | 1.1 |
| 14.... | 1.4 | 1.6 | 1.5 | 1.0 | .... | 1.6 | 36 | 140 | 49 | 1.5 | 0.1 | 0.7 |
| 15.... | 1.4 | 1.6 | 1.4 | 1.1 | .... | 1.7 | 33 | 142 | 44 | 1.1 | 0.1 | 0.5 |
| 16.... | 1.5 | 1.7 | 1.9 | 1.4 | .... | 1.8 | 28 | 159 | 41 | 0.9 | 0.1 | 0.4 |
| 17.... | 1.7 | 2.1 | 1.5 | 1.2 | .... | 1.9 | 27 | 135 | 38 | 0.8 | 0.1 | 0.4 |
| 18.... | 1.6 | 2.7 | 1.2 | 1.2 | .... | 2.5 | 30 | 130 | 36 | 0.7 | 0 | 0.3 |
| 19.... | 1.6 | 2.5 | 1.4 | 1.2 | .... | 2.7 | 33 | 133 | 36 | 0.7 | 0 | 0.3 |
| 20.... | 2.1 | 3.0 | 1.5 | 1.2 | .... | 2.9 | 36 | 128 | 32 | 0.5 | 0 | 0.2 |
| 21.... | 1.9 | 2.1 | 1.2 | 1.2 | .... | 3.4 | 51 | 117 | 30 | 0.4 | 0 | 0.2 |
| 22.... | 1.7 | 1.8 | 1.2 | 1.2 | .... | 4.2 | 75 | 108 | 27 | 0.3 | 0 | 0.2 |
| 23.... | 1.5 | 1.5 | 1.5 | 1.2 | .... | 6.0 | 82 | 96 | 24 | 0.2 | 0 | 0.3 |
| 24.... | 1.5 | 1.0 | 1.7 | 1.2 | .... | 10 | 71 | 82 | 21 | 0.2 | 0 | 0.3 |
| 25.... | 1.2 | 1.0 | 1.4 | 1.2 | .... | 17 | 59 | 71 | 21 | 0.2 | 0 | 0.3 |
| 26.... | 1.1 | 1.2 | 1.4 | 1.2 | .... | 16 | 64 | 82 | 19 | 0.2 | 0 | 0.3 |
| 27.... | 1.5 | 1.4 | 1.6 | 1.2 | .... | 15 | 86 | 71 | 16 | 0.4 | 0 | 0.3 |
| 28.... | 1.8 | 1.4 | 1.8 | 1.2 | .... | 14 | 124 | 64 | 16 | 0.7 | 0 | 0.5 |
| 29.... | 1.5 | 1.4 | 1.9 | 1.2 | .... | 13 | 147 | 71 | 12 | 1.6 | 0 | 1.1 |
| 30.... | 1.5 | 1.5 | 2.1 | 1.2 | .... | 12 | 152 | 73 | 12 | 1.2 | 0.1 | 0.9 |
| 31.... | 1.5 | .... | 1.8 | 1.2 | .... | 12 | .... | 82 | .... | 1.7 | 0.5 | .... |
| Total | 43.5 | 55.5 | 49.5 | 40.1 | 33.6 | 155.2 | 1535 | 4027 | 1319 | 79.1 | 10.8 | 16.6 |
| Mean. | 1.40 | 1.85 | 1.60 | 1.29 | 1.2 | 5.01 | 51.2 | 130 | 44.0 | 2.55 | 0.35 | 0.55 |
| Max.. | 2.3 | 3.0 | 2.1 | 1.8 | .... | 17 | 152 | 183 | 96 | 12 | 3.4 | 1.8 |
| Min.. | 0.6 | 1.0 | 1.2 | 1.0 | .... | 1.2 | 17 | 64 | 12 | 0.2 | 0 | 0.1 |
| Acre-ft. | 86 | 110 | 98 | 80 | 67 | 308 | 3040 | 7990 | 2620 | 157 | 21 | 33 |

Total run-off for water year 1938-39=14,610 acre-feet.

**Discharge of West Divide Creek, Below Willow Creek Near Raven, Colorado, for Year
Ending Sept. 30, 1940.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------------------|-------|------|--------|------|------|-------|
| 1.... | 0.7 | 1.2 | 0.1 | .... | .... | .... | 11 | 55 | 92 | 8.0 | 0 | 0 |
| 2.... | .7 | 1.2 | 0 | .... | .... | .... | 7.0 | 84 | 90 | 7.0 | 0 | 0 |
| 3.... | .7 | 1.1 | 0 | .... | .... | .... | 4.5 | 129 | 86 | 5.5 | 0 | 0 |
| 4.... | .7 | 1.1 | 0 | .... | .... | .... | 3.8 | 170 | 82 | 5.0 | 0 | 0 |
| 5.... | .8 | 1.1 | 0 | .... | .... | .... | 4.0 | 181 | 78 | 4.0 | 0 | 0 |
| 6.... | .8 | 1.1 | 0 | .... | .... | .... | 5.5 | 183 | 76 | 3.5 | 0 | 0 |
| 7.... | .8 | .9 | 0 | .... | .... | .... | 4.5 | 168 | 64 | 3.3 | 0 | 0 |
| 8.... | 1.2 | .8 | 0 | .... | .... | .... | 3.8 | 176 | 60 | 2.7 | 0 | 0 |
| 9.... | 1.8 | .9 | 0 | .... | .... | .... | 3.8 | 186 | 52 | 2.6 | 0 | 0 |
| 10.... | 1.5 | .7 | 0 | .... | .... | .... | 3.6 | 176 | 46 | 2.6 | 0 | 0 |
| 11.... | 1.8 | .8 | 0 | .... | .... | .... | 2.9 | 178 | 44 | 2.6 | 0 | 0 |
| 12.... | 1.8 | .8 | 0 | .... | .... | .... | 4.0 | 178 | 44 | 2.4 | 0 | 0 |
| 13.... | 1.6 | .8 | .1 | .... | .... | Mar. 14 to 31 | 8.0 | 186 | 44 | 2.1 | 0 | 0 |
| 14.... | 1.5 | .7 | .1 | .... | .... | 0.8 | 19 | 173 | 43 | 1.5 | 0 | .3 |
| 15.... | 1.5 | .7 | .1 | .... | .... | 1.0 | 30 | 168 | 42 | 1.2 | 0 | .4 |
| 16.... | 1.4 | .1 | .1 | .... | .... | 1.4 | 29 | 173 | 38 | 1.4 | 0 | .2 |
| 17.... | 1.2 | 0 | 0 | .... | .... | 1.8 | 20 | 143 | 33 | 1.4 | 0 | .3 |
| 18.... | 1.2 | 0 | 0 | .... | .... | 1.6 | 16 | 125 | 30 | 1.5 | 0 | 2.6 |
| 19.... | 1.6 | 0 | 0 | .... | .... | 1.8 | 28 | 121 | 26 | 1.2 | 0 | 2.1 |
| 20.... | .7 | 0 | 0 | .... | .... | 2.0 | 43 | 112 | 25 | .7 | 0 | 1.9 |
| 21.... | .7 | 0 | 0 | .... | .... | 2.5 | 64 | 112 | 24 | .6 | 0 | 1.8 |
| 22.... | .7 | 0 | 0 | .... | .... | 4.0 | 67 | 99 | 20 | .4 | 0 | 2.6 |
| 23.... | .7 | 0 | 0 | .... | .... | 6.0 | 74 | 92 | 15 | .2 | 0 | 1.9 |
| 24.... | .7 | 0 | 0 | .... | .... | 8.0 | 86 | 94 | 13 | .1 | .1 | 1.8 |
| 25.... | .8 | 0 | 0 | .... | .... | 10 | 99 | 84 | 11 | .1 | .7 | 1.2 |
| 26.... | 1.5 | 0 | 0 | .... | .... | 12 | 105 | 84 | 9.0 | 0 | 1.5 | 1.2 |
| 27.... | 1.4 | 0 | 0 | .... | .... | 10 | 103 | 84 | 8.0 | 0 | .9 | 1.1 |
| 28.... | .9 | .1 | 0 | .... | .... | 8.0 | 80 | 94 | 6.5 | 0 | .6 | .9 |
| 29.... | 1.1 | .1 | 0 | .... | .... | 7.0 | 62 | 101 | 5.5 | .2 | .3 | 1.8 |
| 30.... | .9 | .1 | 0 | .... | .... | 7.5 | 55 | 94 | 7.0 | .2 | .1 | 3.5 |
| 31.... | 1.2 | .... | 0 | .... | .... | 9.8 | .... | 90 | .... | .1 | 0 | .... |
| Total | 34.6 | 14.3 | .5 | .... | .... | 95.2 | 10464 | 4093 | 1214.0 | 62.1 | 4.2 | 25.6 |
| Mean. | 1.12 | .48 | .02 | .... | .... | 5.29 | 34.9 | 132 | 40.5 | 2.00 | .14 | .85 |
| Max.. | 1.8 | 1.2 | .1 | .... | .... | 12 | 105 | 186 | 92 | 8.0 | 1.5 | 3.5 |
| Min.. | .7 | 0 | 0 | .... | .... | .8 | 2.9 | 55 | 5.5 | 0 | 0 | 0 |
| Acre-ft. | 69 | 28 | 1.0 | .... | .... | 189 | 2080 | 8120 | 2410 | 123 | 8.3 | 51 |

Total run-off for period=13,080 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Plateau Creek Near Collbran, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|------|-------|------|-------|-------|-------|-------|-------|-------|
| 1..... | 14 | 20 | 21 | 16 | 16 | 19 | 28 | 335 | 340 | 16 | 18 | 8.2 |
| 2..... | 14 | 21 | 20 | 16 | 14 | 19 | 36 | 362 | 225 | 19 | 15 | 7.2 |
| 3..... | 14 | 21 | 20 | 17 | 13 | 21 | 43 | 372 | 183 | 18 | 13 | 6.3 |
| 4..... | 14 | 22 | 20 | 16 | 14 | 18 | 49 | 362 | 189 | 17 | 12 | 6.0 |
| 5..... | 15 | 22 | 20 | 15 | 15 | 16 | 59 | 420 | 199 | 15 | 10 | 14 |
| 6..... | 20 | 24 | 19 | 17 | 15 | 17 | 55 | 478 | 164 | 14 | 13 | 51 |
| 7..... | 28 | 20 | 18 | 18 | 18 | 18 | 44 | 426 | 130 | 12 | 16 | 50 |
| 8..... | 32 | 23 | 18 | 17 | 21 | 18 | 50 | 438 | 113 | 15 | 11 | 20 |
| 9..... | 28 | 24 | 18 | 18 | 19 | 19 | 61 | 506 | 93 | 15 | 8.9 | 15 |
| 10..... | 30 | 22 | 18 | 18 | 17 | 20 | 55 | 576 | 83 | 15 | 8.6 | 13 |
| 11..... | 29 | 20 | 18 | 17 | 18 | 19 | 49 | 608 | 83 | 15 | 13 | 21 |
| 12..... | 30 | 20 | 18 | 16 | 17 | 20 | 56 | 520 | 78 | 14 | 8.6 | 23 |
| 13..... | 38 | 18 | 18 | 16 | 19 | 21 | 65 | 450 | 69 | 13 | 8.9 | 20 |
| 14..... | 39 | 18 | 18 | 17 | 19 | 22 | 57 | 464 | 61 | 14 | 7.2 | 16 |
| 15..... | 51 | 19 | 18 | 18 | 19 | 21 | 46 | 499 | 55 | 16 | 8.2 | 12 |
| 16..... | 44 | 20 | 18 | 18 | 20 | 22 | 41 | 414 | 43 | 16 | 6.3 | 10 |
| 17..... | 45 | 22 | 17 | 15 | 19 | 23 | 34 | 357 | 36 | 16 | 6.0 | 8.6 |
| 18..... | 32 | 21 | 18 | 16 | 19 | 24 | 37 | 438 | 33 | 15 | 5.8 | 6.6 |
| 19..... | 28 | 21 | 18 | 16 | 20 | 24 | 43 | 552 | 31 | 16 | 5.5 | 6.3 |
| 20..... | 25 | 20 | 16 | 16 | 19 | 25 | 44 | 506 | 30 | 15 | 5.5 | 6.5 |
| 21..... | 25 | 20 | 16 | 17 | 18 | 25 | 69 | 450 | 27 | 14 | 6.3 | 6.9 |
| 22..... | 25 | 19 | 16 | 19 | 19 | 27 | 122 | 408 | 24 | 13 | 6.0 | 6.6 |
| 23..... | 20 | 19 | 18 | 18 | 20 | 29 | 145 | 340 | 22 | 13 | 5.5 | 6.0 |
| 24..... | 19 | 17 | 18 | 17 | 21 | 30 | 122 | 263 | 24 | 9.6 | 6.0 | 6.3 |
| 25..... | 19 | 17 | 16 | 16 | 22 | 31 | 95 | 199 | 21 | 9.2 | 6.0 | 6.9 |
| 26..... | 20 | 18 | 16 | 17 | 22 | 31 | 88 | 175 | 19 | 11 | 6.3 | 7.8 |
| 27..... | 20 | 19 | 15 | 18 | 20 | 31 | 145 | 172 | 17 | 18 | 6.9 | 7.2 |
| 28..... | 20 | 20 | 16 | 18 | 19 | 27 | 225 | 169 | 17 | 23 | 8.6 | 8.6 |
| 29..... | 18 | 21 | 15 | 17 | ..... | 24 | 279 | 189 | 16 | 18 | 20 | 17 |
| 30..... | 19 | 21 | 15 | 18 | ..... | 23 | 322 | 215 | 15 | 15 | 11 | 10 |
| 31..... | 20 | ..... | 16 | 18 | ..... | 23 | ..... | 221 | ..... | 15 | 10 | ..... |
| Total | 795 | 609 | 546 | 526 | 512 | 707 | 2564 | 11884 | 2440 | 464.8 | 293.1 | 403.8 |
| Mean. | 25.6 | 20.3 | 17.6 | 17.0 | 18.3 | 22.8 | 85.5 | 383 | 81.3 | 15.0 | 9.45 | 13.5 |
| Max.. | 51 | 24 | 21 | 19 | 22 | 31 | 322 | 608 | 340 | 23 | 20 | 51 |
| Min.. | 14 | 17 | 15 | 15 | 13 | 16 | 28 | 169 | 15 | 9.2 | 5.5 | 6.0 |
| Acre-ft. | 1580 | 1210 | 1080 | 1040 | 1020 | 1400 | 5090 | 23570 | 4840 | 922 | 581 | 891 |

Total run-off for water year 1938-39=43,130 acre-feet.

Discharge of Plateau Creek Near Collbran, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| 1..... | 8.6 | 10 | 6.3 | 8.7 | 8.0 | 10 | 21 | 125 | 124 | 23 | 12 | 7.7 |
| 2..... | 7.8 | 10 | 6.3 | 8.5 | 8.0 | 9.6 | 19 | 163 | 115 | 25 | 10 | 7.5 |
| 3..... | 7.8 | 9.2 | 7.2 | 7.8 | 7.8 | 9.0 | 19 | 260 | 109 | 20 | 9.7 | 7.5 |
| 4..... | 8.2 | 9.6 | 6.9 | 7.5 | 7.3 | 10 | 16 | 414 | 93 | 19 | 9.4 | 7.7 |
| 5..... | 8.2 | 8.2 | 6.6 | 7.6 | 6.8 | 11 | 17 | 499 | 81 | 19 | 10 | 7.5 |
| 6..... | 10 | 9.2 | 6.6 | 7.2 | 7.4 | 9.0 | 19 | 584 | 81 | 20 | 9.4 | 7.3 |
| 7..... | 8.9 | 7.8 | 6.9 | 6.8 | 7.8 | 10 | 17 | 568 | 68 | 22 | 12 | 7.5 |
| 8..... | 9.2 | 7.8 | 6.9 | 6.6 | 7.4 | 11 | 17 | 584 | 59 | 21 | 9.4 | 7.7 |
| 9..... | 11 | 9.6 | 6.9 | 6.7 | 7.0 | 9.0 | 17 | 740 | 53 | 20 | 8.5 | 7.9 |
| 10..... | 9.6 | 7.5 | 6.6 | 6.9 | 7.8 | 10 | 17 | 780 | 46 | 19 | 9.1 | 7.9 |
| 11..... | 11 | 11 | 7.5 | 6.9 | 7.5 | 9.0 | 16 | 760 | 43 | 19 | 10 | 7.1 |
| 12..... | 10 | 10 | 6.6 | 6.8 | 6.8 | 8.0 | 16 | 740 | 37 | 18 | 9.1 | 6.5 |
| 13..... | 10 | 10 | 6.0 | 6.8 | 6.4 | 8.2 | 19 | 760 | 34 | 17 | 7.3 | 8.5 |
| 14..... | 9.6 | 9.6 | 6.4 | 7.1 | 9.2 | 8.4 | 35 | 700 | 32 | 16 | 6.9 | 12 |
| 15..... | 8.9 | 9.2 | 7.2 | 6.4 | 8.6 | 8.8 | 61 | 632 | 30 | 13 | 6.5 | 11 |
| 16..... | 8.6 | 8.6 | 7.5 | 5.3 | 8.2 | 9.0 | 59 | 592 | 28 | 12 | 7.1 | 8.8 |
| 17..... | 8.9 | 7.2 | 7.8 | 4.8 | 8.0 | 9.2 | 42 | 368 | 24 | 13 | 7.1 | 11 |
| 18..... | 8.6 | 6.6 | 7.5 | 4.9 | 9.2 | 9.2 | 41 | 357 | 22 | 13 | 7.1 | 10.7 |
| 19..... | 8.6 | 5.5 | 6.9 | 4.8 | 8.6 | 9.6 | 71 | 362 | 20 | 14 | 8.1 | 8.4 |
| 20..... | 7.8 | 5.2 | 7.2 | 5.0 | 8.0 | 11 | 99 | 294 | 19 | 12 | 11 | 42 |
| 21..... | 8.2 | 5.8 | 5.5 | 5.1 | 7.4 | 13 | 130 | 271 | 22 | 11 | 8.3 | 29 |
| 22..... | 7.8 | 7.2 | 5.8 | 5.0 | 8.0 | 15 | 158 | 252 | 21 | 11 | 9.4 | 36 |
| 23..... | 7.6 | 7.5 | 6.2 | 4.9 | 9.0 | 20 | 205 | 228 | 18 | 12 | 12 | 41 |
| 24..... | 7.8 | 7.8 | 6.4 | 5.6 | 10 | 25 | 267 | 208 | 18 | 15 | 15 | 66 |
| 25..... | 8.6 | 7.8 | 6.2 | 5.9 | 10 | 32 | 263 | 202 | 16 | 14 | 26 | 60 |
| 26..... | 10 | 7.5 | 5.6 | 6.0 | 11 | 37 | 286 | 186 | 15 | 13 | 21 | 29 |
| 27..... | 10 | 6.9 | 5.0 | 6.2 | 12 | 38 | 290 | 172 | 15 | 12 | 14 | 22 |
| 28..... | 10 | 7.8 | 4.7 | 6.8 | 12 | 29 | 212 | 164 | 14 | 16 | 9.7 | 24 |
| 29..... | 11 | 7.8 | 5.8 | 6.8 | 11 | 28 | 166 | 155 | 14 | 17 | 8.1 | 55 |
| 30..... | 10 | 6.6 | 7.5 | 7.1 | ..... | 18 | 135 | 140 | 21 | 18 | 7.9 | 70 |
| 31..... | 9.6 | ..... | 8.4 | 7.6 | ..... | 19 | ..... | 130 | ..... | 13 | 7.5 | ..... |
| Total | 282.1 | 244.5 | 204.6 | 200.1 | 246.2 | 463.0 | 2750 | 12390 | 1295 | 507 | 318.6 | 806.1 |
| Mean. | 9.10 | 8.15 | 6.60 | 6.45 | 8.49 | 14.9 | 91.7 | 400 | 43.2 | 16.4 | 10.3 | 26.9 |
| Max.. | 11 | 11 | 8.4 | 8.7 | 12 | 38 | 290 | 780 | 124 | 25 | 26 | 107 |
| Min.. | 7.8 | 5.2 | 4.7 | 4.8 | 6.4 | 8.0 | 16 | 125 | 14 | 11 | 6.5 | 6.5 |
| Acre-ft. | 560 | 485 | 406 | 397 | 488 | 918 | 5450 | 24580 | 2570 | 1010 | 632 | 1600 |

Total run-off for water year 1939-40=39,100 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Plateau Creek Near Cameo, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|------|------|------|-------|
| 1.... | 82 | 109 | 122 | 82 | 88 | 64 | 191 | 640 | 425 | 41 | 33 | 28 |
| 2.... | 82 | 115 | 111 | 88 | 75 | 66 | 235 | 700 | 341 | 41 | 32 | 31 |
| 3.... | 86 | 115 | 109 | 88 | 78 | 70 | 291 | 724 | 244 | 43 | 32 | 28 |
| 4.... | 84 | 113 | 111 | 86 | 82 | 62 | 277 | 688 | 216 | 43 | 32 | 27 |
| 5.... | 90 | 120 | 106 | 90 | 84 | 58 | 345 | 748 | 232 | 41 | 32 | 39 |
| 6.... | 96 | 109 | 106 | 95 | 80 | 60 | 313 | 874 | 206 | 37 | 47 | 88 |
| 7.... | 104 | 94 | 104 | 105 | 84 | 60 | 241 | 790 | 165 | 39 | 47 | 136 |
| 8.... | 124 | 106 | 106 | 105 | 86 | 62 | 241 | 766 | 136 | 35 | 40 | 82 |
| 9.... | 122 | 129 | 104 | 105 | 84 | 62 | 288 | 790 | 120 | 31 | 33 | 54 |
| 10.... | 122 | 134 | 111 | 105 | 70 | 66 | 264 | 910 | 111 | 31 | 31 | 50 |
| 11.... | 122 | 126 | 120 | 100 | 74 | 92 | 228 | 982 | 100 | 28 | 27 | 64 |
| 12.... | 120 | 120 | 111 | 98 | 74 | 86 | 219 | 874 | 104 | 28 | 28 | 68 |
| 13.... | 122 | 96 | 100 | 96 | 78 | 106 | 257 | 712 | 94 | 27 | 28 | 86 |
| 14.... | 126 | 106 | 77 | 96 | 76 | 94 | 260 | 634 | 86 | 27 | 27 | 80 |
| 15.... | 124 | 111 | 80 | 95 | 76 | 77 | 216 | 736 | 75 | 26 | 27 | 61 |
| 16.... | 129 | 113 | 90 | 94 | 78 | 117 | 209 | 652 | 69 | 26 | 23 | 56 |
| 17.... | 136 | 117 | 100 | 93 | 66 | 143 | 173 | 550 | 54 | 26 | 25 | 56 |
| 18.... | 126 | 106 | 105 | 96 | 68 | 141 | 165 | 568 | 50 | 24 | 24 | 54 |
| 19.... | 120 | 109 | 108 | 98 | 68 | 146 | 188 | 724 | 57 | 25 | 22 | 50 |
| 20.... | 117 | 111 | 105 | 100 | 66 | 156 | 185 | 766 | 54 | 23 | 22 | 47 |
| 21.... | 115 | 111 | 98 | 105 | 64 | 170 | 216 | 658 | 50 | 24 | 23 | 47 |
| 22.... | 111 | 109 | 96 | 110 | 62 | 200 | 280 | 592 | 49 | 23 | 24 | 49 |
| 23.... | 111 | 106 | 90 | 110 | 62 | 216 | 358 | 539 | 46 | 22 | 23 | 45 |
| 24.... | 111 | 84 | 86 | 100 | 64 | 216 | 317 | 400 | 42 | 23 | 21 | 46 |
| 25.... | 109 | 86 | 78 | 90 | 68 | 209 | 260 | 298 | 39 | 21 | 20 | 46 |
| 26.... | 106 | 111 | 72 | 92 | 70 | 216 | 244 | 238 | 42 | 28 | 20 | 49 |
| 27.... | 106 | 115 | 75 | 96 | 68 | 235 | 288 | 225 | 41 | 27 | 21 | 47 |
| 28.... | 106 | 115 | 78 | 100 | 62 | 200 | 430 | 263 | 39 | 33 | 34 | 66 |
| 29.... | 104 | 122 | 78 | 98 | .... | 188 | 562 | 200 | 40 | 37 | 39 | 69 |
| 30.... | 104 | 122 | 80 | 98 | .... | 159 | 646 | 222 | 40 | 45 | 31 | 61 |
| 31.... | 106 | .... | 80 | 96 | .... | 159 | .... | 248 | .... | 42 | 28 | .... |
| Total | 3423 | 3340 | 2997 | 3010 | 2055 | 3956 | 8387 | 18591 | 3367 | 967 | 896 | 1710 |
| Mean... | 110 | 111 | 96.7 | 97.1 | 73.4 | 128 | 280 | 600 | 112 | 31.2 | 28.9 | 57.0 |
| Max... | 136 | 134 | 122 | 110 | 88 | 235 | 646 | 982 | 425 | 43 | 47 | 136 |
| Min... | 82 | 84 | 72 | 82 | 62 | 58 | 165 | 200 | 39 | 21 | 20 | 27 |
| Acre-ft. | 6790 | 6620 | 5940 | 5970 | 4080 | 7850 | 16640 | 36870 | 6680 | 1920 | 1780 | 3390 |

Total run-off for water year 1938-39=104,500 acre-feet.

Discharge of Plateau Creek Near Cameo, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|------|------|------|-------|
| 1.... | 54 | 59 | 58 | 78 | 68 | 96 | 150 | 341 | 142 | 35 | 18 | 25 |
| 2.... | 52 | 59 | 56 | 74 | 68 | 82 | 140 | 381 | 128 | 31 | 17 | 26 |
| 3.... | 53 | 60 | 58 | 68 | 68 | 80 | 102 | 544 | 120 | 30 | 18 | 26 |
| 4.... | 54 | 59 | 58 | 59 | 64 | 68 | 112 | 820 | 108 | 26 | 19 | 31 |
| 5.... | 56 | 60 | 58 | 62 | 62 | 77 | 122 | 964 | 95 | 26 | 19 | 27 |
| 6.... | 58 | 60 | 59 | 60 | 56 | 82 | 125 | 1010 | 86 | 23 | 19 | 26 |
| 7.... | 56 | 60 | 58 | 59 | 68 | 65 | 114 | 1100 | 86 | 22 | 20 | 27 |
| 8.... | 58 | 64 | 56 | 56 | 62 | 68 | 110 | 928 | 72 | 22 | 21 | 26 |
| 9.... | 59 | 68 | 60 | 59 | 60 | 72 | 108 | 1040 | 68 | 19 | 20 | 26 |
| 10.... | 60 | 67 | 60 | 58 | 64 | 72 | 110 | 1340 | 60 | 19 | 21 | 26 |
| 11.... | 59 | 59 | 59 | 59 | 62 | 79 | 95 | 1310 | 46 | 19 | 21 | 25 |
| 12.... | 60 | 62 | 58 | 62 | 58 | 62 | 84 | 1230 | 41 | 18 | 20 | 24 |
| 13.... | 59 | 64 | 46 | 64 | 52 | 52 | 91 | 1290 | 36 | 18 | 19 | 28 |
| 14.... | 58 | 64 | 56 | 52 | 75 | 53 | 132 | 1290 | 35 | 16 | 18 | 28 |
| 15.... | 58 | 62 | 53 | 48 | 74 | 59 | 206 | 1060 | 32 | 16 | 18 | 28 |
| 16.... | 58 | 59 | 56 | 41 | 59 | 72 | 227 | 1070 | 29 | 19 | 18 | 28 |
| 17.... | 52 | 56 | 58 | 42 | 59 | 77 | 170 | 802 | 28 | 21 | 16 | 29 |
| 18.... | 53 | 54 | 59 | 42 | 79 | 68 | 160 | 534 | 27 | 22 | 16 | 56 |
| 19.... | 54 | 54 | 45 | 38 | 70 | 70 | 191 | 580 | 25 | 22 | 19 | 132 |
| 20.... | 56 | 58 | 48 | 43 | 60 | 74 | 258 | 544 | 23 | 22 | 19 | 74 |
| 21.... | 50 | 60 | 51 | 44 | 58 | 74 | 317 | 435 | 26 | 22 | 19 | 62 |
| 22.... | 49 | 59 | 52 | 42 | 67 | 82 | 372 | 381 | 25 | 22 | 18 | 62 |
| 23.... | 50 | 59 | 54 | 41 | 68 | 93 | 390 | 325 | 22 | 22 | 22 | 72 |
| 24.... | 49 | 59 | 55 | 45 | 86 | 112 | 528 | 293 | 21 | 22 | 45 | 80 |
| 25.... | 50 | 59 | 53 | 49 | 84 | 128 | 628 | 254 | 22 | 20 | 45 | 58 |
| 26.... | 64 | 59 | 47 | 51 | 118 | 152 | 592 | 258 | 19 | 19 | 82 | 53 |
| 27.... | 67 | 68 | 44 | 53 | 106 | 185 | 736 | 240 | 20 | 20 | 40 | 50 |
| 28.... | 59 | 62 | 42 | 60 | 104 | 191 | 610 | 215 | 19 | 22 | 33 | 47 |
| 29.... | 60 | 64 | 44 | 59 | 110 | 148 | 490 | 203 | 20 | 23 | 31 | 91 |
| 30.... | 60 | 60 | 51 | 62 | .... | 118 | 420 | 179 | 23 | 20 | 28 | 206 |
| 31.... | 59 | .... | 70 | 65 | .... | 120 | .... | 158 | .... | 19 | 25 | .... |
| Total | 1744 | 1817 | 1682 | 1695 | 2089 | 2831 | 7890 | 21119 | 1504 | 677 | 764 | 1499 |
| Mean... | 56.3 | 60.6 | 54.3 | 54.7 | 72.0 | 91.3 | 263 | 681 | 50.1 | 21.8 | 24.6 | 50.0 |
| Max... | 67 | 68 | 70 | 78 | 118 | 191 | 736 | 1340 | 142 | 35 | 82 | 206 |
| Min... | 49 | 54 | 42 | 38 | 52 | 52 | 84 | 158 | 19 | 16 | 16 | 24 |
| Acre-ft. | 3460 | 3600 | 3340 | 3360 | 4140 | 5620 | 15650 | 41890 | 2980 | 1340 | 1520 | 2970 |

Total run-off for water year 1939-40=89,870 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Buzzard Creek Near Heiberger, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|--------|------|------|------|---------|------|------|--------|------|------|-------|
| 1.... | 1.0 | 3.4 | .... | .... | .... | .... | 30 | 239 | 140 | 2.4 | 0 | 0 |
| 2.... | 1.0 | 4.8 | .... | .... | .... | .... | 37 | 233 | 100 | 1.8 | 0 | 0 |
| 3.... | 1.0 | 5.1 | .... | .... | .... | .... | 46 | 215 | 68 | 1.8 | 0 | 0 |
| 4.... | 1.0 | 5.1 | .... | .... | .... | .... | 60 | 227 | 54 | 1.7 | 0 | 0 |
| 5.... | 1.2 | 4.2 | .... | .... | .... | .... | 71 | 257 | 50 | 1.4 | 0 | 0 |
| 6.... | 1.4 | 3.9 | .... | .... | .... | .... | 55 | 269 | 45 | 1.3 | 0 | 0 |
| 7.... | 1.9 | 4.4 | .... | .... | .... | .... | 37 | 210 | 38 | 1.3 | 0 | 0 |
| 8.... | 3.7 | 4.6 | .... | .... | .... | .... | 43 | 174 | 28 | 1.0 | 0 | 0 |
| 9.... | 5.3 | 5.5 | .... | .... | .... | .... | 62 | 202 | 21 | 0.8 | 0 | 0 |
| 10.... | 3.7 | 5.5 | .... | .... | .... | .... | 41 | 221 | 19 | 0.4 | 0 | 0 |
| 11.... | 3.9 | 5.3 | .... | .... | .... | .... | 27 | 215 | 15 | 0.2 | 0 | 0 |
| 12.... | 4.2 | 5.3 | .... | .... | .... | .... | 33 | 191 | 14 | 0.2 | 0 | 0 |
| 13.... | 3.9 | 5.3 | .... | .... | .... | .... | 68 | 145 | 13 | 0.2 | 0 | 0 |
| 14.... | 4.2 | 5.5 | .... | .... | .... | .... | 52 | 138 | 10 | 0.2 | 0 | 0 |
| 15.... | 4.6 | .... | .... | .... | .... | .... | 28 | 150 | 7.4 | 0.1 | 0 | 0 |
| 16.... | 4.4 | .... | .... | .... | .... | .... | 17 | 150 | 6.0 | 0 | 0 | 0 |
| 17.... | 3.5 | .... | .... | .... | .... | .... | 14 | 150 | 4.5 | 0 | 0 | 0 |
| 18.... | 3.7 | .... | .... | .... | .... | .... | 19 | 152 | 3.9 | 0 | 0 | 0 |
| 19.... | 3.2 | .... | .... | .... | .... | .... | 22 | 152 | 3.1 | 0 | 0 | 0 |
| 20.... | 3.1 | .... | .... | .... | .... | .... | 30 | 150 | 3.2 | 0 | 0 | 0 |
| 21.... | 2.7 | .... | .... | .... | .... | Mar. 23 | 75 | 140 | 3.6 | 0 | 0 | 0 |
| 22.... | 2.9 | .... | .... | .... | .... | to 31 | 115 | 135 | 3.8 | 0 | 0 | 0 |
| 23.... | 3.1 | .... | .... | .... | .... | 14 | 122 | 120 | 4.1 | 0 | 0 | 0 |
| 24.... | 2.6 | .... | .... | .... | .... | 15 | 102 | 90 | 2.7 | 0 | 0 | 0 |
| 25.... | 2.6 | .... | .... | .... | .... | 32 | 82 | 76 | 3.1 | 0 | 0 | 0 |
| 26.... | 2.3 | .... | .... | .... | .... | 30 | 92 | 58 | 3.7 | 0 | 0 | 0 |
| 27.... | 2.4 | .... | .... | .... | .... | 27 | 134 | 56 | 3.5 | 0 | 0 | 0 |
| 28.... | 2.4 | .... | .... | .... | .... | 25 | 183 | 50 | 3.3 | 0 | 0 | 0 |
| 29.... | 2.9 | .... | .... | .... | .... | 18 | 221 | 47 | 3.0 | 0 | 0 | 0 |
| 30.... | 2.7 | Nov. 1 | .... | .... | .... | 19 | 242 | 47 | 2.6 | 0 | 0 | 0 |
| 31.... | 2.7 | to 14 | .... | .... | .... | 22 | .... | 52 | .... | 0 | 0 | 0 |
| Total | 89.2 | 67.9 | .... | .... | .... | 202 | 2160 | 4711 | 6466.5 | 14.8 | 0 | 0 |
| Mean. | 2.88 | 4.85 | .... | .... | .... | 22.4 | 72.0 | 152 | 21.6 | 0.48 | 0 | 0 |
| Max.. | 5.3 | 5.5 | .... | .... | .... | 32 | 242 | 269 | 110 | 2.4 | 0 | 0 |
| Min.. | 1.0 | 3.4 | .... | .... | .... | 14 | 14 | 47 | 2.6 | 0 | 0 | 0 |
| Acre-ft. | 177 | 135 | .... | .... | .... | 401 | 4280 | 9340 | 1280 | 29 | 0 | 0 |

Total run-off for period=15,642 acre-feet.

Discharge of Buzzard Creek Near Heiberger, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|---------|--------|------|-------|------|------|-------|
| 1.... | 0 | 1.4 | .7 | .... | .... | .... | 16 | 46 | 23 | .7 | 0 | 0 |
| 2.... | 0 | 1.4 | .6 | .... | .... | .... | 12 | 64 | 20 | .6 | 0 | 0 |
| 3.... | 0 | 1.4 | .6 | .... | .... | .... | 13 | 117 | 18 | 1.1 | 0 | 0 |
| 4.... | 0 | 1.2 | .5 | .... | .... | .... | 12 | 178 | 18 | 1.0 | 0 | 0 |
| 5.... | 0 | 1.3 | .4 | .... | .... | .... | 13 | 196 | 16 | .6 | 0 | 0 |
| 6.... | 0 | 1.2 | .4 | .... | .... | .... | 16 | 171 | 15 | .4 | 0 | 0 |
| 7.... | 0 | 1.2 | .4 | .... | .... | .... | 13 | 157 | 16 | .2 | 0 | 0 |
| 8.... | 0 | 1.1 | .5 | .... | .... | .... | 13 | 107 | 13 | .1 | 0 | 0 |
| 9.... | 0 | 1.3 | .6 | .... | .... | .... | 14 | 120 | 10 | .1 | 0 | 0 |
| 10.... | 0 | 1.1 | .7 | .... | .... | .... | 12 | 138 | 8.1 | .1 | 0 | 0 |
| 11.... | 0 | 1.0 | .9 | .... | .... | .... | 9.7 | 136 | 6.3 | .1 | 0 | 0 |
| 12.... | 0 | 1.0 | .9 | .... | .... | .... | 9.7 | 120 | 5.5 | .1 | 0 | 0 |
| 13.... | 0 | 1.0 | .7 | .... | .... | .... | 15 | 120 | 4.7 | 0 | 0 | 0 |
| 14.... | 0 | 1.1 | .6 | .... | .... | Mar. 16 | 31 | 151 | 3.8 | 0 | 0 | 0 |
| 15.... | 0 | 1.0 | .8 | .... | .... | to 31 | 44 | 153 | 4.5 | 0 | 0 | 0 |
| 16.... | 0 | .8 | .2 | .... | .... | 2.1 | 37 | 160 | 5.0 | 0 | 0 | 0 |
| 17.... | 0 | .7 | .1 | .... | .... | 2.1 | 33 | 117 | 6.3 | .1 | 0 | 0 |
| 18.... | 0 | .6 | 0 | .... | .... | 2.1 | 28 | 85 | 3.9 | 0 | 0 | 0 |
| 19.... | 0 | .5 | 0 | .... | .... | 2.1 | 41 | 81 | 2.7 | 0 | 0 | 0 |
| 20.... | 0 | .5 | 0 | .... | .... | 2.1 | 60 | 74 | 2.1 | 0 | 0 | 0 |
| 21.... | 0 | .5 | .1 | .... | .... | 2.2 | 74 | 70 | 1.8 | 0 | 0 | 0 |
| 22.... | 0 | .5 | .1 | .... | .... | 2.3 | 78 | 59 | 2.2 | 0 | 0 | .5 |
| 23.... | 0 | .5 | .1 | .... | .... | 2.3 | 82 | 47 | 3.1 | 0 | 0 | 2.1 |
| 24.... | 0 | .4 | .1 | .... | .... | 2.3 | 107 | 41 | 2.9 | 0 | 0 | 3.5 |
| 25.... | 0 | .5 | 0 | .... | .... | 2.3 | 144 | 48 | 2.2 | 0 | 0 | 1.7 |
| 26.... | .4 | .6 | 0 | .... | .... | 2.4 | 136 | 36 | 1.6 | 0 | 0 | 1.1 |
| 27.... | 2.6 | .7 | 0 | .... | .... | 2.4 | 132 | 38 | 1.2 | 0 | 0 | .6 |
| 28.... | 2.6 | .7 | 0 | .... | .... | 2.4 | 83 | 34 | .8 | 0 | 0 | .5 |
| 29.... | 2.4 | .7 | 0 | .... | .... | 2.6 | 63 | 28 | .5 | 0 | 0 | .9 |
| 30.... | 1.6 | .6 | 0 | .... | .... | 2.6 | 52 | 25 | .5 | 0 | 0 | 3.8 |
| 31.... | 1.4 | .... | 0 | .... | .... | 4.5 | .... | 25 | .... | 0 | 0 | .... |
| Total | 11.0 | 26.5 | 10.0 | .... | .... | 38.8 | 1393.4 | 2942 | 218.7 | 5.2 | 0 | 14.7 |
| Mean. | .35 | .88 | .32 | .... | .... | 2.42 | 46.4 | 94.9 | 7.29 | .17 | 0 | .49 |
| Max.. | 2.6 | 1.4 | .9 | .... | .... | 4.5 | 144 | 196 | 23 | 1.1 | 0 | 3.8 |
| Min.. | 0 | .4 | 0 | .... | .... | 2.1 | 9.7 | 25 | .5 | 0 | 0 | 0 |
| Acre-ft. | 22 | 53 | 20 | .... | .... | 77 | 2760 | 5840 | 434 | 10 | 0 | 29 |

Total run-off for period=9,245 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Buzzard Creek Near Collbran, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|-------|-------|-------|-------|------|------|-------|------|------|-------|
| 1.... | 3.5 | 7.7 | 4.9 | 5.2 | 5.0 | 5.4 | 90 | 235 | 129 | 2.8 | 1.2 | 1.0 |
| 2.... | 4.5 | 7.7 | 5.6 | 5.2 | 4.2 | 5.0 | 116 | 248 | 116 | 2.3 | 1.1 | 0.9 |
| 3.... | 5.0 | 7.7 | 5.6 | 5.6 | 4.9 | 5.6 | 137 | 226 | 71 | 2.3 | 1.1 | 0.9 |
| 4.... | 5.6 | 7.7 | 5.8 | 5.8 | 5.6 | 5.8 | 168 | 222 | 57 | 2.2 | 1.3 | 0.9 |
| 5.... | 6.4 | 7.9 | 6.0 | 5.4 | 5.8 | 5.0 | 177 | 240 | 52 | 1.9 | 1.4 | 0.9 |
| 6.... | 6.4 | 6.2 | 6.2 | 5.8 | 5.6 | 6.4 | 118 | 267 | 47 | 1.7 | 1.6 | 1.1 |
| 7.... | 6.4 | 6.4 | 6.4 | 5.6 | 6.0 | 7.4 | 85 | 223 | 39 | 1.8 | 2.3 | 1.1 |
| 8.... | 7.7 | 6.8 | 6.4 | 5.6 | 5.2 | 8.0 | 106 | 188 | 30 | 1.3 | 1.5 | 1.1 |
| 9.... | 9.2 | 7.6 | 6.4 | 5.8 | 5.4 | 9.0 | 118 | 203 | 23 | 1.2 | 1.4 | 0.8 |
| 10.... | 7.2 | 7.6 | 6.4 | 5.6 | 5.0 | 9.2 | 85 | 219 | 20 | 1.2 | 1.4 | 0.8 |
| 11.... | 6.8 | 7.0 | 6.6 | 5.6 | 5.4 | 9.8 | 66 | 213 | 15 | 0.9 | 1.4 | 1.0 |
| 12.... | 6.8 | 6.8 | 6.6 | 5.8 | 5.0 | 11 | 76 | 194 | 15 | 0.8 | 1.4 | 1.3 |
| 13.... | 7.0 | 6.8 | 6.0 | 5.6 | 5.6 | 11 | 107 | 164 | 13 | 0.8 | 1.3 | 1.3 |
| 14.... | 7.2 | 7.0 | 5.0 | 5.8 | 5.4 | 12 | 99 | 144 | 11 | 0.6 | 1.2 | 1.2 |
| 15.... | 7.0 | 7.2 | 5.4 | 5.2 | 5.6 | 13 | 67 | 160 | 8.4 | 0.6 | 1.2 | 1.0 |
| 16.... | 7.2 | 7.2 | 5.8 | 5.8 | 5.4 | 13 | 61 | 160 | 6.4 | 0.7 | 1.1 | 0.8 |
| 17.... | 7.7 | 7.7 | 5.4 | 5.4 | 4.7 | 14 | 46 | 153 | 5.0 | 0.8 | 1.0 | 0.7 |
| 18.... | 7.2 | 7.4 | 5.2 | 5.5 | 5.0 | 15 | 48 | 152 | 4.5 | 0.8 | 1.0 | 0.7 |
| 19.... | 7.0 | 7.4 | 5.4 | 5.8 | 5.8 | 15 | 61 | 164 | 3.4 | 0.9 | 0.9 | 0.6 |
| 20.... | 7.0 | 6.8 | 5.2 | 5.6 | 5.0 | 16 | 60 | 161 | 3.8 | 0.8 | 0.9 | 0.5 |
| 21.... | 7.2 | 6.4 | 5.8 | 6.2 | 5.0 | 19 | 89 | 145 | 4.1 | 0.8 | 1.0 | 0.7 |
| 22.... | 7.4 | 6.0 | 5.8 | 5.6 | 5.0 | 25 | 134 | 139 | 4.3 | 0.7 | 1.0 | 0.9 |
| 23.... | 7.9 | 5.6 | 5.2 | 6.2 | 5.2 | 30 | 158 | 136 | 4.7 | 0.8 | 0.9 | 1.0 |
| 24.... | 7.9 | 5.0 | 4.8 | 4.7 | 5.4 | 39 | 139 | 100 | 3.0 | 0.8 | 0.9 | 1.0 |
| 25.... | 7.7 | 4.5 | 4.6 | 4.7 | 5.4 | 50 | 113 | 79 | 3.4 | 0.8 | 0.9 | 1.1 |
| 26.... | 7.7 | 4.5 | 5.2 | 4.9 | 5.8 | 48 | 124 | 61 | 4.3 | 0.8 | 0.9 | 1.1 |
| 27.... | 7.7 | 4.5 | 5.0 | 5.2 | 5.6 | 46 | 147 | 58 | 4.1 | 0.8 | 1.0 | 1.1 |
| 28.... | 7.7 | 4.5 | 5.2 | 5.4 | 5.2 | 44 | 204 | 53 | 3.8 | 1.7 | 1.2 | 1.4 |
| 29.... | 7.7 | 4.7 | 5.0 | 5.8 | .... | 42 | 223 | 48 | 3.6 | 1.9 | 1.2 | 1.5 |
| 30.... | 7.7 | 4.7 | 5.0 | 5.6 | .... | 48 | 248 | 50 | 3.3 | 1.8 | 1.2 | 1.5 |
| 31.... | 7.7 | .... | 5.2 | 6.0 | .... | 57 | .... | 63 | .... | 1.5 | 1.2 | .... |
| Total | 217.1 | 195 | 173.1 | 172.0 | 148.2 | 644.6 | 3480 | 4873 | 708.1 | 38.8 | 37.1 | 29.9 |
| Mean. | 7.00 | 6.50 | 5.58 | 5.55 | 5.29 | 20.8 | 116 | 157 | 23.6 | 1.25 | 1.20 | 1.00 |
| Max.. | 9.2 | 7.9 | 6.6 | 6.2 | 6.0 | 57 | 248 | 267 | 129 | 2.8 | 2.3 | 1.5 |
| Min.. | 3.5 | 4.5 | 4.6 | 4.7 | 4.2 | 5.0 | 46 | 48 | 3.0 | 0.6 | 0.9 | 0.5 |
| Acre-ft. | 431 | 387 | 343 | 341 | 294 | 1280 | 6900 | 9670 | 1400 | 77 | 74 | 59 |

Total run-off for water year 1938-39=21,260 acre-feet.

Discharge of Buzzard Creek Near Collbran, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|-------|------|------|-------|------|------|-------|
| 1.... | 1.2 | 2.9 | 0.9 | 0.8 | 1.2 | 3.4 | 71 | 107 | 20 | 1.6 | 0.5 | 0.4 |
| 2.... | 1.1 | 2.8 | .9 | .8 | 1.3 | 4.1 | 48 | 123 | 19 | 1.6 | .5 | .4 |
| 3.... | 1.1 | 2.6 | .8 | .8 | 1.3 | 4.6 | 29 | 171 | 18 | 1.2 | .4 | .4 |
| 4.... | 1.2 | 2.6 | .8 | .8 | 1.2 | 5.8 | 32 | 248 | 15 | 1.2 | .4 | .4 |
| 5.... | 1.2 | 2.6 | .9 | .9 | 1.2 | 5.0 | 54 | 280 | 14 | 1.2 | .4 | .4 |
| 6.... | 1.4 | 2.5 | .9 | .9 | 1.1 | 4.1 | 56 | 271 | 12 | 1.1 | .4 | .4 |
| 7.... | 1.2 | 2.2 | .8 | .9 | 1.3 | 5.0 | 42 | 276 | 13 | 1.0 | .4 | .5 |
| 8.... | 1.4 | 1.9 | .8 | .8 | 1.2 | 3.1 | 40 | 240 | 11 | 1.1 | .4 | .4 |
| 9.... | 1.6 | 2.4 | .8 | .8 | 1.2 | 5.0 | 41 | 233 | 9.8 | 1.0 | .4 | .4 |
| 10.... | 1.6 | 2.1 | .9 | .8 | 1.2 | 3.2 | 43 | 262 | 8.6 | 1.1 | .5 | .4 |
| 11.... | 1.5 | 2.1 | .7 | .8 | 1.1 | 2.9 | 23 | 251 | 7.0 | 1.1 | .5 | .4 |
| 12.... | 1.5 | 1.8 | .6 | .8 | 1.0 | 3.2 | 19 | 239 | 4.1 | 1.1 | .4 | .4 |
| 13.... | 1.5 | 1.8 | .7 | .9 | 1.0 | 3.2 | 32 | 215 | 2.9 | 1.0 | .5 | .5 |
| 14.... | 1.5 | 1.7 | .8 | .9 | 1.6 | 3.2 | 88 | 237 | 2.8 | 1.1 | .4 | .4 |
| 15.... | 1.5 | 1.9 | 1.0 | .7 | 1.6 | 3.7 | 109 | 201 | 2.5 | 1.5 | .4 | .5 |
| 16.... | 1.5 | 1.7 | 1.1 | .6 | 1.3 | 4.4 | 110 | 206 | 2.4 | 1.5 | .4 | .5 |
| 17.... | 1.5 | 1.7 | 1.4 | .6 | 1.3 | 4.6 | 74 | 184 | 2.2 | 1.5 | .4 | .6 |
| 18.... | 1.6 | 1.7 | 1.2 | .6 | 2.0 | 6.2 | 71 | 136 | 2.1 | 1.4 | .4 | .6 |
| 19.... | 1.6 | 1.6 | 1.1 | .6 | 1.9 | 6.2 | 78 | 126 | 1.7 | 1.5 | .4 | .6 |
| 20.... | 1.4 | .9 | .9 | .7 | 1.8 | 6.2 | 113 | 123 | 1.7 | 1.4 | .5 | .6 |
| 21.... | 1.4 | .9 | .8 | .7 | 1.7 | 8.0 | 158 | 106 | 1.7 | 1.4 | .5 | .6 |
| 22.... | 1.5 | .9 | .8 | .7 | 2.0 | 14 | 163 | 96 | 1.5 | 1.4 | .4 | .6 |
| 23.... | 1.5 | 1.4 | .8 | .7 | 2.3 | 18 | 156 | 75 | 1.4 | 1.2 | .6 | .6 |
| 24.... | 1.6 | 1.0 | .8 | .8 | 2.7 | 34 | 187 | 62 | 1.4 | 1.2 | .6 | .6 |
| 25.... | 1.7 | .9 | .7 | .8 | 3.2 | 44 | 269 | 68 | 1.4 | 1.1 | .6 | 1.0 |
| 26.... | 2.4 | 1.0 | .7 | .9 | 3.2 | 68 | 224 | 55 | 1.2 | 1.0 | .8 | 1.0 |
| 27.... | 2.9 | 1.0 | .7 | .9 | 3.7 | 85 | 233 | 54 | 1.2 | 1.1 | .6 | .6 |
| 28.... | 3.1 | .9 | .6 | 1.0 | 3.7 | 63 | 182 | 41 | 1.2 | 1.1 | .5 | .8 |
| 29.... | 2.9 | 1.0 | .6 | 1.0 | 3.4 | 43 | 148 | 32 | 1.0 | .6 | .4 | 2.9 |
| 30.... | 2.9 | .8 | .6 | 1.1 | .... | 28 | 132 | 25 | 1.6 | .6 | .4 | 14 |
| 31.... | 2.9 | .... | .7 | 1.2 | .... | 71 | .... | 22 | .... | .6 | .4 | .... |
| Total | 52.9 | 51.3 | 25.8 | 25.3 | 52.7 | 563.1 | 3025 | 4765 | 183.4 | 36.5 | 14.4 | 31.9 |
| Mean. | 1.71 | 1.71 | .83 | .82 | 1.82 | 18.2 | 101 | 154 | 6.11 | 1.18 | .46 | 1.06 |
| Max.. | 3.1 | 2.9 | 1.4 | 1.2 | 3.7 | 85 | 269 | 280 | 20 | 1.6 | .8 | 14 |
| Min.. | 1.1 | .8 | .6 | .6 | 1.0 | 2.9 | 19 | 22 | 1.0 | .6 | .4 | .4 |
| Acre-ft. | 105 | 102 | 51 | 50 | 105 | 1120 | 6000 | 9450 | 364 | 72 | 29 | 63 |

Total run-off for water year 1939-40=17,510 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Taylor River Below Taylor Park Reservoir, for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| 1..... | 52 | 25 | 25 | 25 | 25 | 25 | 38 | 25 | 781 | 244 | 565 | 635 |
| 2..... | 52 | 25 | 25 | 25 | 25 | 25 | 38 | 25 | 726 | 235 | 565 | 645 |
| 3..... | 52 | 25 | 25 | 25 | 25 | 25 | 38 | 25 | 676 | 232 | 570 | 660 |
| 4..... | 52 | 25 | 25 | 25 | 25 | 25 | 47 | 25 | 693 | 226 | 570 | 720 |
| 5..... | 52 | 25 | 25 | 25 | 25 | 25 | 47 | 25 | 737 | 220 | 570 | 754 |
| 6..... | 52 | 25 | 25 | 25 | 25 | 25 | 47 | 25 | 737 | 210 | 570 | 748 |
| 7..... | 52 | 25 | 25 | 25 | 25 | 25 | 60 | 25 | 645 | 195 | 520 | 737 |
| 8..... | 52 | 25 | 25 | 25 | 25 | 25 | 60 | 25 | 580 | 170 | 501 | 600 |
| 9..... | 52 | 25 | 25 | 25 | 25 | 25 | 60 | 25 | 540 | 165 | 501 | 506 |
| 10..... | 52 | 73 | 25 | 25 | 25 | 25 | 73 | 25 | 501 | 172 | 441 | 449 |
| 11..... | 25 | 125 | 25 | 25 | 25 | 25 | 73 | 25 | 501 | 545 | 461 | 433 |
| 12..... | 25 | 57 | 25 | 25 | 25 | 25 | 73 | 25 | 492 | 545 | 501 | 433 |
| 13..... | 25 | 25 | 25 | 25 | 25 | 25 | 80 | 25 | 506 | 560 | 510 | 433 |
| 14..... | 25 | 25 | 25 | 25 | 25 | 25 | 80 | 25 | 520 | 645 | 540 | 284 |
| 15..... | 25 | 25 | 25 | 25 | 25 | 25 | 80 | 25 | 510 | 693 | 560 | 241 |
| 16..... | 25 | 25 | 25 | 25 | 25 | 25 | 80 | 25 | 483 | 688 | 560 | 170 |
| 17..... | 25 | 25 | 25 | 25 | 25 | 25 | 80 | 25 | 449 | 560 | 585 | 117 |
| 18..... | 25 | 25 | 25 | 25 | 25 | 25 | 80 | 25 | 417 | 620 | 605 | 135 |
| 19..... | 25 | 25 | 25 | 25 | 25 | 25 | 95 | 25 | 374 | 570 | 640 | 123 |
| 20..... | 25 | 25 | 25 | 25 | 25 | 25 | 75 | 25 | 340 | 660 | 655 | 123 |
| 21..... | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 315 | 792 | 655 | 127 |
| 22..... | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 301 | 814 | 655 | 101 |
| 23..... | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 38 | 290 | 808 | 655 | 192 |
| 24..... | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 38 | 290 | 808 | 655 | 304 |
| 25..... | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 47 | 294 | 808 | 655 | 354 |
| 26..... | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 170 | 287 | 770 | 655 | 401 |
| 27..... | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 346 | 274 | 693 | 655 | 401 |
| 28..... | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 470 | 265 | 605 | 655 | 401 |
| 29..... | 25 | 25 | 25 | 25 | .... | 33 | 25 | 625 | 259 | 565 | 655 | 340 |
| 30..... | 25 | 25 | 25 | 25 | .... | 33 | 25 | 770 | 256 | 565 | 625 | 301 |
| 31..... | 25 | .... | 25 | 25 | .... | 33 | .... | 764 | .... | 565 | 610 | .... |
| Total | 1045 | 930 | 775 | 775 | 700 | 799 | 1554 | 3818 | 14039 | 15948 | 18120 | 11868 |
| Mean. | 33.7 | 31.0 | 25.0 | 25.0 | 25.0 | 25.8 | 51.8 | 123 | 468 | 514 | 585 | 396 |
| Max. | 52 | 125 | 25 | 25 | 25 | 33 | 95 | 770 | 781 | 814 | 655 | 754 |
| Min. | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 256 | 165 | 441 | 101 |
| Acre-ft. | 2070 | 1840 | 1540 | 1540 | 1390 | 1580 | 3080 | 7570 | 27850 | 31630 | 35940 | 23540 |

Total run-off for water year 1938-39=139,600 acre-feet.

Discharge of Taylor River Below Taylor Park Reservoir for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|------|------|------|------|------|------|-----|------|-------|-------|-------|
| 1..... | 312 | 25 | 10 | 20 | 20 | 14 | 14 | 0 | 0 | 0 | 590 | 570 |
| 2..... | 315 | 25 | 10 | 20 | 20 | 14 | 14 | 0 | 0 | 0 | 595 | 555 |
| 3..... | 682 | 25 | 10 | 20 | 20 | 14 | 14 | 0 | 0 | 0 | 610 | 550 |
| 4..... | 160 | 25 | 10 | 20 | 20 | 14 | 14 | 0 | 0 | 202 | 620 | 550 |
| 5..... | 125 | 25 | 10 | 20 | 20 | 14 | 14 | 0 | 0 | 385 | 640 | 550 |
| 6..... | 182 | 25 | 10 | 20 | 20 | 14 | 14 | 0 | 0 | 496 | 682 | 530 |
| 7..... | 215 | 25 | 10 | 20 | 20 | 14 | 14 | 0 | 0 | 545 | 630 | 545 |
| 8..... | 215 | 25 | 10 | 20 | 20 | 14 | 14 | 0 | 0 | 570 | 565 | 550 |
| 9..... | 218 | 25 | 10 | 20 | 20 | 14 | 14 | 0 | 0 | 595 | 590 | 540 |
| 10..... | 212 | 25 | 10 | 20 | 20 | 14 | 14 | 0 | 0 | 650 | 600 | 530 |
| 11..... | 210 | 25 | 10 | 20 | 20 | 14 | 14 | 0 | 0 | 676 | 575 | 580 |
| 12..... | 208 | 25 | 10 | 20 | 20 | 14 | 71 | 0 | 0 | 676 | 590 | 650 |
| 13..... | 208 | 25 | 10 | 20 | 20 | 14 | 99 | 0 | 0 | 676 | 620 | 635 |
| 14..... | 208 | 25 | 10 | 20 | 20 | 14 | 99 | 0 | 0 | 660 | 630 | 590 |
| 15..... | 208 | 25 | 10 | 20 | 20 | 14 | 99 | 0 | 0 | 682 | 660 | 506 |
| 16..... | 208 | 25 | 10 | 20 | 20 | 14 | 44 | 0 | 0 | 666 | 660 | 465 |
| 17..... | 208 | 25 | 10 | 20 | 20 | 14 | 10 | 0 | 0 | 615 | 645 | 277 |
| 18..... | 208 | 25 | 10 | 20 | 20 | 14 | 10 | 0 | 0 | 535 | 545 | 194 |
| 19..... | 208 | 25 | 10 | 20 | 20 | 14 | 10 | 0 | 0 | 515 | 21 | 150 |
| 20..... | 208 | 25 | 10 | 20 | 20 | 14 | 10 | 0 | 0 | 600 | 635 | 84 |
| 21..... | 210 | 20 | 10 | 20 | 20 | 14 | 10 | 0 | 0 | 666 | 630 | 74 |
| 22..... | 210 | 20 | 10 | 20 | 20 | 14 | 10 | 0 | 0 | 682 | 580 | 86 |
| 23..... | 210 | 20 | 10 | 20 | 20 | 14 | 10 | 0 | 0 | 650 | 585 | 82 |
| 24..... | 226 | 20 | 10 | 20 | 20 | 14 | 10 | 0 | 0 | 655 | 580 | 66 |
| 25..... | 265 | 20 | 10 | 20 | 20 | 14 | 10 | 0 | 0 | 655 | 555 | 64 |
| 26..... | 250 | 20 | 10 | 20 | 20 | 14 | 10 | 0 | 0 | 660 | 445 | 59 |
| 27..... | 250 | 20 | 10 | 20 | 20 | 14 | 10 | 0 | 0 | 671 | 265 | 57 |
| 28..... | 250 | 20 | 10 | 20 | 20 | 14 | 10 | 0 | 0 | 635 | 210 | 57 |
| 29..... | 250 | 20 | 10 | 20 | 20 | 14 | 10 | 0 | 0 | 615 | 346 | 57 |
| 30..... | 150 | 15 | 10 | 20 | .... | 14 | 10 | 0 | 0 | 610 | 501 | 57 |
| 31..... | 27 | .... | 10 | 20 | .... | 14 | .... | 0 | .... | 580 | 570 | .... |
| Total | 7016 | 695 | 310 | 620 | 580 | 434 | 706 | 0 | 0 | 16823 | 16990 | 10262 |
| Mean. | 226 | 23.2 | 10 | 20 | 20 | 14 | 23.5 | 0 | 0 | 543 | 548 | 342 |
| Max. | 682 | 25 | 10 | 20 | 20 | 14 | 99 | 0 | 0 | 682 | 682 | 650 |
| Min. | 27 | 15 | 10 | 20 | 20 | 14 | 10 | 0 | 0 | 0 | 21 | 57 |
| Ac.-ft. | 13920 | 1380 | 615 | 1230 | 1150 | 861 | 1400 | 0 | 0 | 33370 | 33700 | 20350 |

Total run-off for water year 1939-40=108,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Taylor River at Almont, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| 1.... | 137 | 100 | 82 | 56 | 56 | 66 | 90 | 272 | 1160 | 368 | 648 | 672 |
| 2.... | 130 | 106 | 78 | 58 | 54 | 66 | 109 | 300 | 1080 | 362 | 648 | 688 |
| 3.... | 124 | 100 | 86 | 62 | 52 | 66 | 118 | 285 | 996 | 357 | 640 | 712 |
| 4.... | 121 | 100 | 95 | 58 | 54 | 74 | 127 | 276 | 1030 | 340 | 633 | 752 |
| 5.... | 118 | 100 | 88 | 56 | 52 | 70 | 148 | 305 | 1080 | 330 | 633 | 792 |
| 6.... | 134 | 86 | 83 | 60 | 54 | 68 | 144 | 315 | 1050 | 310 | 648 | 792 |
| 7.... | 182 | 72 | 86 | 58 | 60 | 68 | 140 | 280 | 936 | 300 | 633 | 800 |
| 8.... | 193 | 112 | 88 | 58 | 58 | 74 | 158 | 254 | 856 | 290 | 591 | 720 |
| 9.... | 154 | 118 | 88 | 58 | 56 | 76 | 168 | 280 | 800 | 280 | 584 | 584 |
| 10.... | 144 | 121 | 88 | 58 | 56 | 74 | 165 | 225 | 760 | 272 | 524 | 544 |
| 11.... | 137 | 208 | 86 | 54 | 58 | 74 | 172 | 340 | 752 | 557 | 524 | 524 |
| 12.... | 121 | 193 | 81 | 56 | 56 | 95 | 168 | 340 | 752 | 640 | 577 | 518 |
| 13.... | 118 | 109 | 74 | 58 | 56 | 81 | 179 | 315 | 760 | 664 | 577 | 512 |
| 14.... | 121 | 90 | 72 | 58 | 60 | 76 | 193 | 340 | 768 | 720 | 612 | 406 |
| 15.... | 121 | 98 | 74 | 56 | 66 | 81 | 186 | 346 | 752 | 776 | 640 | 300 |
| 16.... | 127 | 115 | 80 | 58 | 62 | 69 | 176 | 335 | 712 | 776 | 633 | 285 |
| 17.... | 124 | 118 | 72 | 50 | 56 | 72 | 165 | 325 | 672 | 640 | 648 | 165 |
| 18.... | 112 | 98 | 76 | 54 | 58 | 80 | 162 | 362 | 633 | 696 | 664 | 193 |
| 19.... | 93 | 124 | 76 | 56 | 61 | 86 | 176 | 401 | 564 | 656 | 712 | 182 |
| 20.... | 95 | 124 | 80 | 54 | 68 | 81 | 204 | 434 | 512 | 720 | 728 | 176 |
| 21.... | 93 | 115 | 82 | 58 | 64 | 83 | 154 | 434 | 469 | 848 | 728 | 182 |
| 22.... | 93 | 103 | 80 | 60 | 58 | 103 | 196 | 469 | 434 | 864 | 720 | 165 |
| 23.... | 93 | 76 | 74 | 56 | 62 | 124 | 212 | 463 | 428 | 864 | 720 | 200 |
| 24.... | 93 | 81 | 72 | 47 | 64 | 121 | 158 | 428 | 428 | 856 | 720 | 362 |
| 25.... | 90 | 86 | 66 | 45 | 64 | 106 | 148 | 396 | 423 | 856 | 712 | 406 |
| 26.... | 90 | 82 | 72 | 44 | 68 | 106 | 165 | 423 | 418 | 816 | 712 | 469 |
| 27.... | 93 | 74 | 64 | 50 | 74 | 100 | 190 | 619 | 412 | 768 | 704 | 463 |
| 28.... | 95 | 74 | 60 | 56 | 64 | 90 | 224 | 784 | 406 | 704 | 712 | 463 |
| 29.... | 95 | 74 | 58 | 56 | .... | 88 | 240 | 960 | 396 | 656 | 712 | 412 |
| 30.... | 98 | 80 | 58 | 54 | .... | 81 | 258 | 1110 | 384 | 680 | 688 | 362 |
| 31.... | 95 | .... | 56 | 58 | .... | 83 | .... | 1120 | .... | 664 | 664 | .... |
| Total | 3634 | 3137 | 2375 | 1720 | 1671 | 2582 | 5093 | 13536 | 20823 | 18630 | 20289 | 19801 |
| Mean. | 117 | 105 | 76.6 | 55.5 | 59.7 | 83.3 | 170 | 437 | 694 | 601 | 654 | 460 |
| Max. | 193 | 208 | 95 | 62 | 74 | 124 | 258 | 1120 | 1160 | 864 | 728 | 800 |
| Min. | 90 | 72 | 56 | 44 | 52 | 66 | 90 | 225 | 384 | 272 | 524 | 165 |
| Ac.-ft. | 7210 | 6220 | 4710 | 3410 | 3310 | 5120 | 10100 | 26850 | 41300 | 36950 | 40240 | 27370 |

Total run-off for water year 1938-39=212,800 acre-feet.

Discharge of Taylor River at Almont, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|------|------|------|------|------|------|------|------|-------|-------|-------|
| 1.... | 368 | 86 | 74 | 52 | 51 | 49 | 56 | 63 | 196 | 65 | 648 | 584 |
| 2.... | 368 | 83 | 74 | 52 | 52 | 48 | 56 | 74 | 193 | 58 | 648 | 584 |
| 3.... | 752 | 81 | 72 | 52 | 50 | 48 | 50 | 95 | 186 | 58 | 656 | 577 |
| 4.... | 240 | 78 | 65 | 53 | 48 | 49 | 49 | 124 | 172 | 136 | 664 | 570 |
| 5.... | 179 | 78 | 65 | 53 | 44 | 49 | 52 | 118 | 158 | 396 | 680 | 564 |
| 6.... | 208 | 83 | 61 | 52 | 43 | 48 | 54 | 88 | 144 | 505 | 728 | 564 |
| 7.... | 267 | 78 | 49 | 50 | 46 | 47 | 50 | 98 | 130 | 564 | 712 | 564 |
| 8.... | 262 | 76 | 50 | 45 | 48 | 49 | 50 | 83 | 118 | 584 | 626 | 564 |
| 9.... | 267 | 81 | 58 | 49 | 47 | 50 | 50 | 88 | 115 | 605 | 619 | 557 |
| 10.... | 258 | 76 | 61 | 51 | 47 | 49 | 50 | 124 | 109 | 633 | 633 | 550 |
| 11.... | 249 | 76 | 58 | 52 | 47 | 47 | 47 | 144 | 103 | 696 | 619 | 570 |
| 12.... | 249 | 78 | 54 | 48 | 47 | 50 | 56 | 148 | 100 | 704 | 633 | 672 |
| 13.... | 249 | 78 | 49 | 43 | 45 | 54 | 151 | 137 | 98 | 720 | 656 | 680 |
| 14.... | 249 | 78 | 47 | 38 | 45 | 50 | 158 | 140 | 100 | 712 | 672 | 619 |
| 15.... | 244 | 78 | 48 | 35 | 48 | 48 | 168 | 118 | 106 | 728 | 704 | 564 |
| 16.... | 244 | 76 | 49 | 35 | 46 | 48 | 144 | 168 | 93 | 744 | 712 | 518 |
| 17.... | 249 | 78 | 47 | 39 | 45 | 49 | 67 | 168 | 103 | 696 | 696 | 401 |
| 18.... | 249 | 76 | 45 | 40 | 47 | 45 | 76 | 137 | 98 | 688 | 696 | 262 |
| 19.... | 249 | 76 | 45 | 37 | 49 | 45 | 95 | 118 | 95 | 612 | 163 | 240 |
| 20.... | 249 | 78 | 45 | 40 | 48 | 45 | 115 | 118 | 93 | 648 | 594 | 151 |
| 21.... | 249 | 72 | 47 | 41 | 46 | 47 | 121 | 130 | 93 | 736 | 648 | 124 |
| 22.... | 249 | 72 | 48 | 39 | 48 | 49 | 112 | 121 | 90 | 776 | 598 | 134 |
| 23.... | 249 | 78 | 49 | 37 | 49 | 50 | 109 | 109 | 83 | 752 | 605 | 162 |
| 24.... | 254 | 83 | 49 | 42 | 48 | 43 | 112 | 121 | 81 | 720 | 598 | 144 |
| 25.... | 310 | 74 | 48 | 45 | 48 | 49 | 103 | 127 | 78 | 720 | 591 | 137 |
| 26.... | 310 | 74 | 46 | 46 | 49 | 52 | 106 | 137 | 72 | 752 | 505 | 134 |
| 27.... | 305 | 81 | 43 | 49 | 48 | 52 | 106 | 168 | 69 | 752 | 362 | 124 |
| 28.... | 300 | 72 | 39 | 46 | 48 | 52 | 88 | 165 | 55 | 720 | 244 | 121 |
| 29.... | 315 | 74 | 41 | 46 | 48 | 49 | 81 | 172 | 61 | 688 | 335 | 124 |
| 30.... | 285 | 74 | 44 | 47 | .... | 49 | 76 | 172 | 63 | 688 | 524 | 127 |
| 31.... | 93 | .... | 50 | 48 | .... | 52 | .... | 190 | .... | 664 | 584 | .... |
| Total | 8568 | 2326 | 1620 | 1402 | 1375 | 1511 | 2608 | 3993 | 3265 | 18520 | 18353 | 11686 |
| Mean. | 276 | 77.5 | 52.3 | 45.2 | 47.4 | 48.7 | 86.9 | 129 | 109 | 597 | 592 | 390 |
| Max. | 752 | 86 | 74 | 52 | 52 | 54 | 168 | 190 | 196 | 776 | 728 | 680 |
| Min. | 93 | 72 | 39 | 35 | 43 | 43 | 47 | 63 | 61 | 58 | 163 | 121 |
| Ac.-ft. | 16990 | 4610 | 3210 | 2780 | 2730 | 3000 | 5170 | 7920 | 6480 | 36730 | 36400 | 23180 |

Total run-off for water year 1939-40=149,200 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of East River at Almont, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|-------|-------|------|-------|
| 1..... | 91 | 105 | 72 | 54 | 52 | 62 | 150 | 976 | 1230 | 340 | 122 | 96 |
| 2..... | 90 | 112 | 70 | 56 | 52 | 62 | 147 | 1080 | 984 | 331 | 112 | 91 |
| 3..... | 93 | 107 | 76 | 58 | 50 | 62 | 157 | 976 | 968 | 314 | 107 | 86 |
| 4..... | 91 | 107 | 78 | 56 | 52 | 64 | 182 | 1050 | 1070 | 292 | 110 | 83 |
| 5..... | 91 | 114 | 78 | 54 | 50 | 60 | 201 | 1210 | 1160 | 272 | 122 | 85 |
| 6..... | 100 | 101 | 80 | 58 | 52 | 60 | 204 | 1180 | 1060 | 249 | 144 | 105 |
| 7..... | 124 | 98 | 86 | 60 | 56 | 60 | 188 | 968 | 871 | 224 | 204 | 207 |
| 8..... | 142 | 98 | 78 | 58 | 54 | 62 | 210 | 885 | 817 | 210 | 207 | 207 |
| 9..... | 128 | 110 | 75 | 60 | 52 | 64 | 256 | 952 | 759 | 188 | 210 | 217 |
| 10..... | 116 | 116 | 82 | 58 | 52 | 62 | 252 | 1120 | 680 | 177 | 182 | 171 |
| 11..... | 116 | 112 | 80 | 58 | 54 | 64 | 238 | 1170 | 728 | 177 | 160 | 204 |
| 12..... | 124 | 105 | 80 | 58 | 52 | 68 | 238 | 1120 | 692 | 157 | 147 | 210 |
| 13..... | 128 | 90 | 78 | 60 | 56 | 72 | 260 | 968 | 753 | 147 | 150 | 198 |
| 14..... | 132 | 101 | 68 | 60 | 58 | 72 | 292 | 1020 | 810 | 147 | 155 | 174 |
| 15..... | 132 | 101 | 70 | 58 | 60 | 64 | 260 | 1110 | 778 | 139 | 147 | 157 |
| 16..... | 137 | 112 | 72 | 58 | 58 | 63 | 256 | 1060 | 704 | 139 | 137 | 147 |
| 17..... | 132 | 105 | 68 | 54 | 56 | 58 | 214 | 1020 | 680 | 134 | 124 | 122 |
| 18..... | 130 | 93 | 70 | 56 | 56 | 58 | 220 | 1060 | 558 | 128 | 120 | 82 |
| 19..... | 124 | 105 | 72 | 58 | 58 | 61 | 260 | 1130 | 479 | 116 | 114 | 75 |
| 20..... | 122 | 100 | 74 | 56 | 60 | 64 | 280 | 1300 | 411 | 110 | 114 | 77 |
| 21..... | 118 | 96 | 76 | 60 | 58 | 70 | 349 | 1300 | 386 | 105 | 116 | 75 |
| 22..... | 114 | 91 | 74 | 60 | 54 | 83 | 447 | 1390 | 377 | 98 | 105 | 78 |
| 23..... | 110 | 74 | 70 | 58 | 58 | 122 | 540 | 1450 | 406 | 91 | 101 | 78 |
| 24..... | 110 | 78 | 64 | 48 | 60 | 139 | 468 | 1300 | 406 | 91 | 101 | 80 |
| 25..... | 105 | 76 | 62 | 46 | 62 | 144 | 416 | 1140 | 401 | 91 | 101 | 83 |
| 26..... | 94 | 72 | 64 | 48 | 64 | 144 | 436 | 992 | 391 | 91 | 93 | 90 |
| 27..... | 94 | 68 | 60 | 50 | 64 | 144 | 524 | 968 | 363 | 100 | 86 | 86 |
| 28..... | 90 | 68 | 58 | 54 | 62 | 132 | 645 | 1050 | 358 | 122 | 86 | 90 |
| 29..... | 91 | 66 | 56 | 52 | .... | 134 | 810 | 1280 | 354 | 137 | 101 | 122 |
| 30..... | 100 | 70 | 54 | 52 | .... | 126 | 885 | 1400 | 349 | 139 | 105 | 116 |
| 31..... | 100 | .... | 54 | 54 | .... | 134 | .... | 1270 | .... | 134 | 98 | .... |
| Total | 3469 | 2851 | 2199 | 1730 | 1572 | 2634 | 9985 | 34895 | 19983 | 5190 | 3981 | 3692 |
| Mean. | 112 | 95.0 | 70.9 | 55.8 | 56.1 | 85.0 | 333 | 1126 | 666 | 167 | 128 | 123 |
| Max. | 142 | 116 | 86 | 60 | 64 | 144 | 885 | 1450 | 1230 | 340 | 210 | 217 |
| Min. | 90 | 66 | 54 | 46 | 50 | 58 | 147 | 885 | 349 | 91 | 86 | 75 |
| Acre-ft. | 6880 | 5650 | 4360 | 3430 | 3120 | 5220 | 19800 | 69210 | 39640 | 10290 | 7900 | 7320 |

Total run-off for water year 1938-39=182,800 acre-feet.

Discharge of East River at Almont, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|-------|------|------|-------|
| 1..... | 108 | 92 | 69 | 34 | 24 | 46 | 75 | 248 | 1020 | 260 | 79 | 84 |
| 2..... | 92 | 90 | 67 | 34 | 25 | 45 | 73 | 256 | 975 | 224 | 79 | 78 |
| 3..... | 92 | 94 | 66 | 34 | 24 | 45 | 69 | 350 | 940 | 208 | 78 | 78 |
| 4..... | 94 | 90 | 65 | 33 | 24 | 46 | 65 | 560 | 846 | 181 | 78 | 76 |
| 5..... | 98 | 90 | 65 | 33 | 23 | 48 | 70 | 645 | 786 | 172 | 78 | 73 |
| 6..... | 100 | 98 | 60 | 32 | 22 | 46 | 70 | 580 | 732 | 155 | 79 | 72 |
| 7..... | 102 | 90 | 60 | 30 | 22 | 43 | 75 | 708 | 640 | 150 | 100 | 70 |
| 8..... | 102 | 87 | 57 | 28 | 23 | 46 | 75 | 714 | 630 | 143 | 143 | 68 |
| 9..... | 102 | 89 | 56 | 29 | 23 | 49 | 78 | 834 | 540 | 126 | 138 | 58 |
| 10..... | 102 | 79 | 55 | 29 | 23 | 46 | 73 | 1010 | 460 | 119 | 124 | 32 |
| 11..... | 102 | 78 | 52 | 29 | 24 | 45 | 65 | 1090 | 450 | 119 | 129 | 24 |
| 12..... | 104 | 78 | 50 | 28 | 25 | 40 | 62 | 1110 | 500 | 112 | 131 | 25 |
| 13..... | 102 | 76 | 49 | 24 | 23 | 45 | 72 | 1080 | 550 | 110 | 114 | 34 |
| 14..... | 98 | 75 | 47 | 22 | 22 | 44 | 89 | 926 | 615 | 110 | 112 | 73 |
| 15..... | 98 | 73 | 48 | 20 | 26 | 45 | 141 | 905 | 615 | 108 | 122 | 72 |
| 16..... | 98 | 72 | 49 | 20 | 29 | 45 | 155 | 996 | 550 | 102 | 119 | 72 |
| 17..... | 98 | 68 | 47 | 21 | 27 | 48 | 131 | 1130 | 570 | 100 | 114 | 76 |
| 18..... | 98 | 69 | 45 | 22 | 27 | 43 | 150 | 884 | 550 | 94 | 106 | 86 |
| 19..... | 98 | 70 | 44 | 21 | 31 | 44 | 228 | 774 | 505 | 100 | 104 | 141 |
| 20..... | 98 | 66 | 43 | 21 | 34 | 43 | 355 | 798 | 495 | 98 | 110 | 131 |
| 21..... | 96 | 65 | 43 | 21 | 32 | 48 | 470 | 792 | 495 | 94 | 106 | 119 |
| 22..... | 96 | 66 | 44 | 22 | 31 | 50 | 510 | 690 | 505 | 92 | 104 | 148 |
| 23..... | 90 | 69 | 44 | 22 | 31 | 52 | 505 | 675 | 455 | 94 | 106 | 117 |
| 24..... | 81 | 71 | 45 | 22 | 37 | 57 | 560 | 732 | 415 | 92 | 117 | 78 |
| 25..... | 79 | 72 | 41 | 23 | 33 | 62 | 495 | 816 | 365 | 90 | 114 | 78 |
| 26..... | 82 | 73 | 37 | 23 | 35 | 72 | 495 | 864 | 336 | 89 | 129 | 76 |
| 27..... | 89 | 75 | 33 | 23 | 43 | 73 | 575 | 884 | 300 | 90 | 136 | 69 |
| 28..... | 86 | 70 | 30 | 22 | 44 | 66 | 500 | 891 | 276 | 89 | 122 | 70 |
| 29..... | 89 | 68 | 31 | 22 | 45 | 65 | 415 | 926 | 260 | 86 | 114 | 76 |
| 30..... | 86 | 66 | 32 | 23 | .... | 65 | 332 | 898 | 256 | 82 | 106 | 86 |
| 31..... | 89 | .... | 33 | 23 | .... | 73 | .... | 996 | .... | 79 | 100 | .... |
| Total | 2949 | 2319 | 1507 | 790 | 832 | 1585 | 7028 | 24762 | 16632 | 3768 | 3391 | 2340 |
| Mean. | 95.1 | 77.3 | 48.6 | 25.5 | 28.7 | 51.1 | 234 | 799 | 554 | 122 | 109 | 78.0 |
| Max. | 108 | 98 | 69 | 34 | 45 | 73 | 575 | 1130 | 1020 | 260 | 143 | 148 |
| Min. | 79 | 65 | 30 | 20 | 22 | 40 | 62 | 248 | 256 | 79 | 78 | 24 |
| Acre-ft. | 5850 | 4600 | 2990 | 1570 | 1650 | 3140 | 13940 | 49110 | 32990 | 7470 | 6730 | 4640 |

Total run-off for water year 1939-40=134,700 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Tomichi Creek at Sargents, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|------|-------|------|-------|-------|-------|------|------|-------|
| 1..... | 29 | 33 | 36 | 26 | 27 | 18 | 62 | 222 | 191 | 37 | 26 | 21 |
| 2..... | 29 | 34 | 34 | 27 | 24 | 17 | 75 | 233 | 167 | 33 | 26 | 22 |
| 3..... | 31 | 35 | 34 | 28 | 24 | 17 | 90 | 233 | 160 | 33 | 25 | 19 |
| 4..... | 31 | 42 | 36 | 28 | 25 | 16 | 88 | 233 | 155 | 31 | 25 | 16 |
| 5..... | 29 | 40 | 36 | 27 | 26 | 16 | 88 | 241 | 152 | 28 | 24 | 18 |
| 6..... | 35 | 31 | 34 | 27 | 24 | 16 | 86 | 244 | 140 | 28 | 26 | 21 |
| 7..... | 74 | 27 | 34 | 26 | 26 | 17 | 84 | 233 | 126 | 27 | 33 | 22 |
| 8..... | 74 | 42 | 34 | 27 | 27 | 16 | 80 | 228 | 116 | 25 | 27 | 22 |
| 9..... | 50 | 52 | 36 | 25 | 27 | 16 | 84 | 238 | 110 | 25 | 25 | 23 |
| 10..... | 48 | 42 | 36 | 24 | 25 | 17 | 90 | 263 | 105 | 24 | 24 | 23 |
| 11..... | 45 | 44 | 34 | 23 | 25 | 17 | 88 | 249 | 103 | 22 | 22 | 25 |
| 12..... | 44 | 38 | 31 | 24 | 25 | 17 | 86 | 246 | 94 | 23 | 21 | 23 |
| 13..... | 42 | 32 | 29 | 25 | 24 | 18 | 92 | 233 | 82 | 21 | 20 | 22 |
| 14..... | 44 | 29 | 26 | 24 | 24 | 18 | 86 | 233 | 76 | 22 | 20 | 21 |
| 15..... | 45 | 32 | 28 | 23 | 25 | 17 | 82 | 238 | 68 | 35 | 20 | 22 |
| 16..... | 45 | 34 | 28 | 23 | 25 | 18 | 76 | 244 | 61 | 38 | 20 | 20 |
| 17..... | 45 | 36 | 27 | 25 | 22 | 19 | 72 | 225 | 59 | 31 | 19 | 19 |
| 18..... | 39 | 34 | 25 | 27 | 22 | 20 | 66 | 233 | 58 | 28 | 17 | 18 |
| 19..... | 39 | 32 | 28 | 26 | 23 | 22 | 68 | 260 | 58 | 27 | 16 | 18 |
| 20..... | 35 | 32 | 30 | 26 | 24 | 24 | 71 | 249 | 58 | 26 | 17 | 18 |
| 21..... | 37 | 34 | 32 | 24 | 22 | 28 | 86 | 241 | 54 | 25 | 18 | 18 |
| 22..... | 35 | 32 | 30 | 25 | 18 | 34 | 128 | 258 | 48 | 23 | 19 | 18 |
| 23..... | 34 | 30 | 28 | 25 | 18 | 40 | 136 | 249 | 45 | 20 | 17 | 18 |
| 24..... | 33 | 29 | 26 | 24 | 18 | 50 | 131 | 238 | 46 | 16 | 17 | 17 |
| 25..... | 35 | 32 | 24 | 22 | 19 | 52 | 124 | 230 | 45 | 16 | 17 | 18 |
| 26..... | 34 | 36 | 25 | 23 | 19 | 50 | 133 | 204 | 44 | 18 | 21 | 20 |
| 27..... | 34 | 38 | 24 | 25 | 19 | 48 | 133 | 191 | 39 | 19 | 25 | 21 |
| 28..... | 34 | 38 | 23 | 27 | 18 | 44 | 152 | 184 | 38 | 22 | 26 | 20 |
| 29..... | 33 | 36 | 24 | 27 | ..... | 46 | 184 | 184 | 37 | 25 | 25 | 22 |
| 30..... | 33 | 36 | 24 | 26 | ..... | 44 | 209 | 189 | 42 | 38 | 23 | 21 |
| 31..... | 33 | ..... | 25 | 26 | ..... | 50 | ..... | 186 | ..... | 29 | 22 | ..... |
| Total | 1228 | 1062 | 924 | 785 | 645 | 842 | 3030 | 7132 | 2577 | 815 | 683 | 606 |
| Mean. | 39.6 | 35.4 | 29.8 | 25.3 | 23.0 | 27.2 | 101 | 230 | 85.9 | 26.3 | 22.0 | 20.2 |
| Max. | 74 | 52 | 36 | 28 | 27 | 52 | 209 | 263 | 191 | 38 | 33 | 25 |
| Min. | 29 | 27 | 23 | 22 | 18 | 16 | 62 | 184 | 37 | 16 | 16 | 16 |
| Acre-ft. | 2440 | 2110 | 1830 | 1560 | 1280 | 1670 | 6010 | 14150 | 5110 | 1620 | 1350 | 1200 |

Total run-off for water year 1938-39=40,330 acre-feet.

Discharge of Tomichi Creek at Sargents, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|------|-------|------|-------|------|-------|------|------|-------|
| 1..... | 20 | 27 | 32 | 21 | 18 | 19 | 46 | 52 | 87 | 27 | 15 | 14 |
| 2..... | 19 | 26 | 34 | 23 | 20 | 18 | 49 | 61 | 83 | 27 | 14 | 14 |
| 3..... | 18 | 25 | 34 | 23 | 20 | 18 | 51 | 70 | 79 | 24 | 13 | 15 |
| 4..... | 18 | 27 | 33 | 22 | 19 | 18 | 52 | 88 | 76 | 24 | 12 | 17 |
| 5..... | 18 | 28 | 33 | 20 | 17 | 17 | 47 | 96 | 76 | 27 | 11 | 15 |
| 6..... | 18 | 31 | 32 | 21 | 16 | 18 | 43 | 99 | 72 | 27 | 14 | 14 |
| 7..... | 19 | 27 | 31 | 21 | 17 | 17 | 35 | 112 | 58 | 23 | 22 | 15 |
| 8..... | 19 | 31 | 30 | 20 | 16 | 17 | 35 | 114 | 52 | 22 | 20 | 15 |
| 9..... | 19 | 29 | 29 | 19 | 16 | 19 | 34 | 121 | 51 | 21 | 16 | 15 |
| 10..... | 19 | 29 | 28 | 18 | 16 | 21 | 32 | 128 | 43 | 18 | 17 | 15 |
| 11..... | 19 | 27 | 28 | 19 | 17 | 22 | 32 | 138 | 42 | 15 | 17 | 17 |
| 12..... | 19 | 31 | 28 | 19 | 16 | 21 | 32 | 140 | 42 | 17 | 15 | 16 |
| 13..... | 19 | 32 | 28 | 18 | 15 | 20 | 40 | 124 | 42 | 17 | 14 | 17 |
| 14..... | 19 | 28 | 27 | 18 | 15 | 20 | 51 | 114 | 40 | 18 | 13 | 16 |
| 15..... | 18 | 26 | 27 | 17 | 16 | 21 | 52 | 119 | 40 | 18 | 13 | 15 |
| 16..... | 19 | 25 | 27 | 17 | 15 | 23 | 47 | 128 | 45 | 22 | 15 | 16 |
| 17..... | 22 | 25 | 27 | 18 | 14 | 24 | 38 | 138 | 45 | 21 | 14 | 20 |
| 18..... | 24 | 25 | 26 | 18 | 14 | 24 | 42 | 131 | 38 | 18 | 13 | 21 |
| 19..... | 25 | 25 | 25 | 19 | 16 | 24 | 54 | 110 | 34 | 18 | 15 | 21 |
| 20..... | 24 | 26 | 26 | 19 | 15 | 24 | 65 | 103 | 37 | 17 | 20 | 18 |
| 21..... | 24 | 26 | 25 | 17 | 14 | 26 | 72 | 138 | 32 | 16 | 22 | 19 |
| 22..... | 24 | 27 | 25 | 17 | 15 | 29 | 67 | 119 | 31 | 15 | 21 | 23 |
| 23..... | 24 | 28 | 25 | 18 | 16 | 31 | 61 | 101 | 28 | 15 | 21 | 21 |
| 24..... | 23 | 30 | 26 | 18 | 17 | 33 | 65 | 94 | 25 | 15 | 22 | 22 |
| 25..... | 23 | 29 | 26 | 18 | 16 | 35 | 56 | 94 | 21 | 18 | 23 | 22 |
| 26..... | 25 | 30 | 24 | 19 | 16 | 37 | 61 | 96 | 20 | 19 | 25 | 21 |
| 27..... | 24 | 32 | 22 | 20 | 17 | 41 | 65 | 96 | 21 | 20 | 23 | 20 |
| 28..... | 24 | 32 | 21 | 18 | 18 | 40 | 63 | 92 | 21 | 20 | 21 | 20 |
| 29..... | 27 | 30 | 20 | 16 | 19 | 39 | 61 | 92 | 20 | 16 | 21 | 21 |
| 30..... | 29 | 29 | 20 | 16 | ..... | 39 | 60 | 90 | 23 | 15 | 18 | 22 |
| 31..... | 29 | ..... | 20 | 17 | ..... | 43 | ..... | 88 | ..... | 15 | 15 | ..... |
| Total | 671 | 843 | 839 | 584 | 476 | 788 | 1508 | 3286 | 1324 | 605 | 535 | 537 |
| Mean. | 21.6 | 28.1 | 27.1 | 18.8 | 16.4 | 25.4 | 50.3 | 106 | 44.1 | 19.5 | 17.3 | 17.9 |
| Max. | 29 | 32 | 34 | 23 | 20 | 43 | 72 | 140 | 87 | 27 | 25 | 23 |
| Min. | 18 | 25 | 20 | 16 | 14 | 17 | 32 | 52 | 20 | 15 | 11 | 14 |
| Acre-ft. | 1330 | 1670 | 1660 | 1160 | 944 | 1560 | 2990 | 6520 | 2630 | 1200 | 1060 | 1070 |

Total run-off for water year 1939-40=23,790 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Tomichi Creek at Gunnison, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|-------|-------|-------|-------|------|------|-------|
| 1.... | 96 | 156 | 110 | 80 | 80 | 72 | 440 | 425 | 395 | 83 | 94 | 73 |
| 2.... | 86 | 163 | 100 | 85 | 68 | 66 | 540 | 435 | 390 | 80 | 98 | 80 |
| 3.... | 90 | 163 | 100 | 90 | 70 | 70 | 645 | 455 | 345 | 76 | 112 | 73 |
| 4.... | 89 | 170 | 115 | 95 | 78 | 66 | 640 | 460 | 325 | 74 | 114 | 68 |
| 5.... | 89 | 185 | 110 | 80 | 80 | 60 | 623 | 465 | 340 | 68 | 112 | 66 |
| 6.... | 111 | 150 | 110 | 90 | 72 | 62 | 596 | 470 | 325 | 60 | 112 | 66 |
| 7.... | 199 | 125 | 100 | 80 | 78 | 70 | 502 | 460 | 295 | 56 | 195 | 70 |
| 8.... | 302 | 130 | 105 | 85 | 80 | 60 | 455 | 435 | 266 | 56 | 227 | 80 |
| 9.... | 274 | 175 | 105 | 78 | 85 | 62 | 496 | 420 | 248 | 51 | 188 | 83 |
| 10.... | 204 | 160 | 105 | 72 | 72 | 66 | 535 | 445 | 199 | 45 | 153 | 76 |
| 11.... | 204 | 150 | 105 | 68 | 74 | 72 | 460 | 460 | 178 | 40 | 136 | 76 |
| 12.... | 167 | 156 | 100 | 72 | 76 | 72 | 425 | 440 | 174 | 39 | 125 | 74 |
| 13.... | 153 | 114 | 90 | 78 | 74 | 76 | 460 | 405 | 164 | 42 | 117 | 76 |
| 14.... | 150 | 109 | 76 | 76 | 74 | 85 | 475 | 370 | 167 | 43 | 114 | 73 |
| 15.... | 153 | 116 | 80 | 70 | 80 | 80 | 355 | 400 | 146 | 44 | 101 | 71 |
| 16.... | 160 | 126 | 85 | 68 | 78 | 89 | 280 | 445 | 112 | 44 | 94 | 73 |
| 17.... | 163 | 128 | 74 | 76 | 58 | 114 | 235 | 460 | 85 | 44 | 89 | 76 |
| 18.... | 160 | 121 | 66 | 95 | 56 | 132 | 215 | 440 | 70 | 43 | 85 | 63 |
| 19.... | 150 | 109 | 90 | 80 | 76 | 132 | 215 | 410 | 68 | 44 | 78 | 63 |
| 20.... | 146 | 121 | 100 | 80 | 74 | 156 | 231 | 440 | 68 | 42 | 76 | 62 |
| 21.... | 143 | 120 | 105 | 74 | 56 | 188 | 253 | 450 | 70 | 42 | 76 | 57 |
| 22.... | 143 | 105 | 100 | 76 | 50 | 276 | 305 | 475 | 68 | 43 | 78 | 59 |
| 23.... | 136 | 90 | 90 | 74 | 56 | 574 | 345 | 470 | 68 | 42 | 73 | 59 |
| 24.... | 134 | 85 | 76 | 68 | 66 | 1080 | 365 | 435 | 71 | 43 | 70 | 57 |
| 25.... | 134 | 105 | 68 | 66 | 72 | 1060 | 330 | 420 | 76 | 46 | 65 | 57 |
| 26.... | 131 | 110 | 74 | 68 | 76 | 897 | 305 | 390 | 94 | 47 | 68 | 59 |
| 27.... | 146 | 115 | 72 | 76 | 78 | 867 | 290 | 345 | 91 | 54 | 68 | 56 |
| 28.... | 156 | 115 | 70 | 90 | 68 | 640 | 300 | 325 | 89 | 60 | 83 | 56 |
| 29.... | 156 | 115 | 72 | 85 | .... | 562 | 355 | 325 | 85 | 56 | 83 | 56 |
| 30.... | 153 | 115 | 74 | 80 | .... | 425 | 410 | 345 | 80 | 56 | 85 | 52 |
| 31.... | 156 | .... | 76 | 78 | .... | 415 | .... | 365 | .... | 74 | 80 | .... |
| Total | 4734 | 3902 | 2803 | 2433 | 2005 | 8639 | 12081 | 13085 | 5152 | 1637 | 3249 | 2004 |
| Mean. | 153 | 130 | 90.4 | 78.5 | 71.6 | 279 | 403 | 422 | 172 | 52.8 | 105 | 66.8 |
| Max. | 302 | 185 | 115 | 95 | 85 | 1080 | 645 | 475 | 395 | 83 | 227 | 83 |
| Min. | 86 | 85 | 66 | 66 | 50 | 60 | 215 | 325 | 68 | 39 | 65 | 52 |
| Acre-ft. | 9390 | 7740 | 5560 | 4830 | 3980 | 17140 | 23960 | 25950 | 10220 | 3250 | 6440 | 3970 |

Total run-off for water year 1938-39=122,430 acre-feet.

Discharge of Tomichi Creek at Gunnison, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1.... | 50 | 87 | 83 | 56 | 68 | 68 | 237 | 103 | 94 | 44 | 62 | 49 |
| 2.... | 47 | 87 | 83 | 59 | 76 | 68 | 224 | 94 | 94 | 46 | 61 | 47 |
| 3.... | 46 | 91 | 83 | 59 | 76 | 72 | 183 | 87 | 94 | 44 | 61 | 46 |
| 4.... | 45 | 94 | 85 | 65 | 72 | 72 | 158 | 78 | 89 | 46 | 58 | 46 |
| 5.... | 46 | 89 | 89 | 65 | 70 | 73 | 158 | 59 | 83 | 46 | 58 | 43 |
| 6.... | 45 | 98 | 89 | 65 | 68 | 73 | 164 | 55 | 83 | 46 | 62 | 41 |
| 7.... | 45 | 112 | 92 | 64 | 67 | 72 | 155 | 44 | 82 | 43 | 75 | 40 |
| 8.... | 46 | 103 | 94 | 58 | 68 | 72 | 140 | 31 | 72 | 44 | 80 | 38 |
| 9.... | 46 | 101 | 96 | 61 | 70 | 75 | 138 | 30 | 73 | 46 | 82 | 38 |
| 10.... | 51 | 101 | 91 | 61 | 68 | 78 | 135 | 34 | 72 | 47 | 78 | 38 |
| 11.... | 51 | 96 | 91 | 62 | 68 | 80 | 126 | 48 | 68 | 46 | 76 | 36 |
| 12.... | 48 | 101 | 92 | 64 | 68 | 82 | 116 | 59 | 64 | 43 | 72 | 31 |
| 13.... | 48 | 109 | 76 | 62 | 70 | 78 | 118 | 75 | 59 | 46 | 72 | 30 |
| 14.... | 52 | 103 | 68 | 60 | 68 | 80 | 132 | 83 | 59 | 46 | 70 | 30 |
| 15.... | 56 | 98 | 73 | 60 | 67 | 80 | 158 | 92 | 59 | 49 | 67 | 28 |
| 16.... | 59 | 89 | 78 | 58 | 67 | 78 | 170 | 109 | 59 | 51 | 67 | 26 |
| 17.... | 57 | 80 | 87 | 57 | 70 | 87 | 161 | 116 | 58 | 55 | 64 | 26 |
| 18.... | 57 | 87 | 89 | 60 | 70 | 91 | 143 | 152 | 61 | 56 | 62 | 27 |
| 19.... | 59 | 83 | 80 | 65 | 70 | 98 | 138 | 132 | 67 | 54 | 67 | 26 |
| 20.... | 60 | 80 | 72 | 64 | 68 | 109 | 132 | 111 | 68 | 49 | 70 | 27 |
| 21.... | 65 | 83 | 64 | 54 | 68 | 114 | 135 | 149 | 68 | 48 | 75 | 28 |
| 22.... | 65 | 83 | 62 | 56 | 67 | 138 | 140 | 203 | 68 | 51 | 67 | 29 |
| 23.... | 63 | 87 | 64 | 58 | 67 | 158 | 138 | 183 | 61 | 52 | 64 | 30 |
| 24.... | 65 | 87 | 62 | 61 | 67 | 173 | 135 | 135 | 55 | 52 | 65 | 32 |
| 25.... | 65 | 89 | 62 | 64 | 67 | 193 | 132 | 111 | 56 | 55 | 73 | 37 |
| 26.... | 73 | 89 | 62 | 64 | 67 | 230 | 129 | 98 | 58 | 55 | 78 | 38 |
| 27.... | 89 | 96 | 56 | 67 | 65 | 276 | 118 | 103 | 58 | 56 | 80 | 41 |
| 28.... | 83 | 96 | 52 | 64 | 65 | 269 | 114 | 89 | 51 | 61 | 78 | 41 |
| 29.... | 76 | 87 | 52 | 58 | 68 | 227 | 107 | 85 | 47 | 64 | 75 | 43 |
| 30.... | 76 | 83 | 55 | 61 | .... | 213 | 103 | 89 | 47 | 70 | 65 | 46 |
| 31.... | 80 | .... | 58 | 64 | .... | 220 | .... | 87 | .... | 70 | 56 | .... |
| Total | 1814 | 2769 | 2340 | 1896 | 1990 | 3797 | 4337 | 2924 | 2027 | 1581 | 2140 | 1078 |
| Mean. | 58.5 | 92.3 | 75.5 | 61.2 | 68.6 | 122 | 145 | 94.3 | 67.6 | 51 | 69.0 | 35.9 |
| Max. | 89 | 112 | 96 | 67 | 76 | 276 | 237 | 203 | 94 | 70 | 82 | 49 |
| Min. | 45 | 80 | 52 | 54 | 65 | 68 | 103 | 30 | 47 | 43 | 56 | 26 |
| Acre-ft. | 3600 | 5490 | 4640 | 3760 | 3950 | 7530 | 8600 | 5800 | 4020 | 3140 | 4240 | 2140 |

Total run-off for water year 1939-40=56,910 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Quartz Creek Near Ohio, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|--------|-------|-------|-------|---------|-------|-------|-------|------|------|-------|
| 1..... | 37 | 69 | ..... | ..... | ..... | ..... | 42 | 147 | 144 | 51 | 36 | 26 |
| 2..... | 35 | 69 | ..... | ..... | ..... | ..... | 46 | 140 | 135 | 49 | 34 | 26 |
| 3..... | 38 | 56 | ..... | ..... | ..... | ..... | 52 | 137 | 130 | 46 | 29 | 24 |
| 4..... | 37 | 42 | ..... | ..... | ..... | ..... | 60 | 130 | 147 | 44 | 27 | 22 |
| 5..... | 39 | 40 | ..... | ..... | ..... | ..... | 67 | 144 | 154 | 44 | 28 | 21 |
| 6..... | 51 | 36 | ..... | ..... | ..... | ..... | 70 | 167 | 147 | 41 | 34 | 23 |
| 7..... | 67 | 24 | ..... | ..... | ..... | ..... | 60 | 130 | 123 | 40 | 43 | 21 |
| 8..... | 60 | 26 | ..... | ..... | ..... | ..... | 69 | 128 | 121 | 38 | 37 | 22 |
| 9..... | 50 | 28 | ..... | ..... | ..... | ..... | 72 | 149 | 115 | 37 | 33 | 21 |
| 10..... | 49 | 27 | ..... | ..... | ..... | ..... | 63 | 186 | 117 | 35 | 32 | 17 |
| 11..... | 48 | 26 | ..... | ..... | ..... | ..... | 56 | 175 | 115 | 34 | 32 | 21 |
| 12..... | 49 | ..... | ..... | ..... | ..... | ..... | 57 | 170 | 112 | 34 | 32 | 22 |
| 13..... | 54 | ..... | ..... | ..... | ..... | ..... | 62 | 157 | 115 | 33 | 32 | 23 |
| 14..... | 54 | ..... | ..... | ..... | ..... | ..... | 56 | 172 | 112 | 33 | 30 | 24 |
| 15..... | 49 | ..... | ..... | ..... | ..... | Mar. 16 | 55 | 200 | 104 | 33 | 30 | 24 |
| 16..... | 56 | ..... | ..... | ..... | ..... | to 31 | 50 | 197 | 92 | 31 | 33 | 24 |
| 17..... | 56 | ..... | ..... | ..... | ..... | 28 | 39 | 188 | 79 | 30 | 33 | 24 |
| 18..... | 54 | ..... | ..... | ..... | ..... | 29 | 42 | 188 | 74 | 29 | 31 | 23 |
| 19..... | 52 | ..... | ..... | ..... | ..... | 24 | 48 | 208 | 70 | 30 | 30 | 22 |
| 20..... | 48 | ..... | ..... | ..... | ..... | 27 | 50 | 222 | 66 | 26 | 30 | 22 |
| 21..... | 51 | ..... | ..... | ..... | ..... | 30 | 62 | 228 | 64 | 28 | 30 | 21 |
| 22..... | 55 | ..... | ..... | ..... | ..... | 35 | 79 | 236 | 60 | 29 | 30 | 21 |
| 23..... | 54 | ..... | ..... | ..... | ..... | 37 | 86 | 233 | 59 | 29 | 31 | 21 |
| 24..... | 51 | ..... | ..... | ..... | ..... | 35 | 75 | 208 | 57 | 26 | 27 | 19 |
| 25..... | 46 | ..... | ..... | ..... | ..... | 42 | 69 | 186 | 56 | 25 | 29 | 23 |
| 26..... | 44 | ..... | ..... | ..... | ..... | 41 | 72 | 157 | 54 | 25 | 29 | 21 |
| 27..... | 46 | ..... | ..... | ..... | ..... | 40 | 72 | 157 | 51 | 26 | 30 | 19 |
| 28..... | 46 | ..... | ..... | ..... | ..... | 35 | 94 | 167 | 51 | 26 | 33 | 20 |
| 29..... | 44 | ..... | ..... | ..... | ..... | 36 | 132 | 183 | 51 | 32 | 31 | 21 |
| 30..... | 44 | Nov. 1 | ..... | ..... | ..... | 32 | 140 | 177 | 52 | 41 | 28 | 20 |
| 31..... | 51 | to 11 | ..... | ..... | ..... | 36 | ..... | 177 | ..... | 36 | 28 | ..... |
| Total | 1513 | 443 | ..... | ..... | ..... | 507 | 1997 | 5444 | 2827 | 1061 | 972 | 658 |
| Mean. | 48.8 | 40.3 | ..... | ..... | ..... | 33.8 | 66.6 | 176 | 94.2 | 34.2 | 31.4 | 21.9 |
| Max. | 67 | 69 | ..... | ..... | ..... | 42 | 140 | 236 | 154 | 51 | 43 | 26 |
| Min. | 35 | 24 | ..... | ..... | ..... | 24 | 39 | 128 | 51 | 25 | 27 | 17 |
| Acre-ft. | 3000 | 879 | ..... | ..... | ..... | 1010 | 3960 | 10800 | 5610 | 2100 | 1930 | 1310 |

Total run-off for period=30,599 acre-feet.

Discharge of Quartz Creek Near Ohio, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|------|-------|------|-------|------|-------|------|------|-------|
| 1..... | 20 | 22 | 17 | 18 | 12 | 22 | 27 | 32 | 110 | 27 | 15 | 17 |
| 2..... | 20 | 22 | 16 | 19 | 13 | 21 | 27 | 37 | 104 | 24 | 17 | 16 |
| 3..... | 19 | 20 | 16 | 19 | 13 | 20 | 26 | 45 | 96 | 22 | 17 | 15 |
| 4..... | 18 | 20 | 16 | 18 | 13 | 22 | 25 | 53 | 92 | 19 | 18 | 16 |
| 5..... | 17 | 20 | 17 | 18 | 11 | 21 | 27 | 57 | 90 | 22 | 20 | 15 |
| 6..... | 16 | 22 | 17 | 17 | 10 | 20 | 25 | 62 | 79 | 22 | 20 | 15 |
| 7..... | 16 | 21 | 17 | 16 | 11 | 24 | 24 | 77 | 72 | 20 | 24 | 14 |
| 8..... | 16 | 21 | 17 | 16 | 11 | 25 | 24 | 79 | 69 | 20 | 24 | 12 |
| 9..... | 17 | 23 | 18 | 17 | 11 | 22 | 24 | 83 | 63 | 18 | 24 | 19 |
| 10..... | 16 | 22 | 18 | 18 | 11 | 19 | 22 | 100 | 57 | 18 | 25 | 16 |
| 11..... | 18 | 22 | 19 | 19 | 12 | 22 | 22 | 110 | 55 | 18 | 23 | 13 |
| 12..... | 19 | 24 | 18 | 19 | 11 | 23 | 23 | 100 | 53 | 18 | 24 | 12 |
| 13..... | 20 | 27 | 16 | 15 | 11 | 22 | 26 | 90 | 50 | 16 | 19 | 14 |
| 14..... | 20 | 23 | 17 | 13 | 11 | 21 | 29 | 100 | 50 | 16 | 18 | 13 |
| 15..... | 21 | 20 | 17 | 13 | 12 | 21 | 36 | 110 | 50 | 20 | 18 | 12 |
| 16..... | 22 | 18 | 18 | 13 | 13 | 21 | 32 | 130 | 49 | 24 | 18 | 10 |
| 17..... | 21 | 17 | 17 | 13 | 12 | 22 | 28 | 132 | 48 | 26 | 18 | 10 |
| 18..... | 20 | 17 | 17 | 14 | 12 | 22 | 32 | 104 | 48 | 25 | 19 | 12 |
| 19..... | 20 | 17 | 16 | 12 | 13 | 22 | 39 | 84 | 46 | 21 | 20 | 18 |
| 20..... | 19 | 19 | 17 | 12 | 15 | 22 | 43 | 84 | 47 | 17 | 20 | 20 |
| 21..... | 20 | 19 | 17 | 13 | 15 | 22 | 46 | 86 | 42 | 18 | 21 | 22 |
| 22..... | 19 | 19 | 17 | 12 | 15 | 23 | 48 | 72 | 37 | 18 | 22 | 28 |
| 23..... | 19 | 20 | 17 | 12 | 15 | 23 | 48 | 63 | 36 | 21 | 23 | 36 |
| 24..... | 19 | 20 | 18 | 12 | 17 | 24 | 50 | 79 | 32 | 21 | 24 | 42 |
| 25..... | 19 | 19 | 17 | 12 | 17 | 24 | 44 | 81 | 31 | 18 | 22 | 36 |
| 26..... | 21 | 19 | 16 | 12 | 17 | 23 | 42 | 84 | 29 | 18 | 22 | 30 |
| 27..... | 20 | 20 | 15 | 13 | 20 | 22 | 42 | 92 | 30 | 19 | 22 | 30 |
| 28..... | 18 | 18 | 14 | 13 | 21 | 22 | 39 | 92 | 24 | 20 | 21 | 30 |
| 29..... | 20 | 17 | 14 | 12 | 22 | 21 | 36 | 100 | 24 | 19 | 20 | 32 |
| 30..... | 20 | 16 | 15 | 12 | ..... | 22 | 34 | 104 | 25 | 17 | 18 | 36 |
| 31..... | 21 | ..... | 16 | 11 | ..... | 24 | ..... | 115 | ..... | 17 | 17 | ..... |
| Total | 591 | 604 | 517 | 453 | 397 | 684 | 990 | 2637 | 1638 | 619 | 633 | 611 |
| Mean. | 19.1 | 20.1 | 16.7 | 14.6 | 13.7 | 22.1 | 33.0 | 85.1 | 54.6 | 20.0 | 20.4 | 20.4 |
| Max. | 22 | 27 | 19 | 19 | 22 | 25 | 50 | 132 | 110 | 27 | 25 | 42 |
| Min. | 16 | 16 | 14 | 11 | 10 | 19 | 22 | 32 | 24 | 16 | 15 | 10 |
| Acre-ft. | 1170 | 1200 | 1030 | 899 | 787 | 1360 | 1960 | 5230 | 3250 | 1230 | 1260 | 1210 |

Total run-off for water year 1939-40=20,590 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cebolla Creek at Powderhorn, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|--------|------|------|------|---------|------|-------|------|------|------|-------|
| 1.... | 55 | 79 | .... | .... | .... | .... | 82 | 265 | 256 | 55 | 44 | 60 |
| 2.... | 53 | 79 | .... | .... | .... | .... | 92 | 290 | 224 | 51 | 44 | 55 |
| 3.... | 60 | 79 | .... | .... | .... | .... | 105 | 270 | 212 | 53 | 53 | 49 |
| 4.... | 62 | 82 | .... | .... | .... | .... | 110 | 265 | 212 | 51 | 49 | 44 |
| 5.... | 60 | 84 | .... | .... | .... | .... | 115 | 275 | 247 | 46 | 47 | 40 |
| 6.... | 93 | 60 | .... | .... | .... | .... | 110 | 305 | 220 | 40 | 79 | 49 |
| 7.... | 166 | 46 | .... | .... | .... | .... | 120 | 238 | 180 | 38 | 127 | 62 |
| 8.... | 149 | 87 | .... | .... | .... | .... | 125 | 216 | 163 | 37 | 77 | 60 |
| 9.... | 108 | 90 | .... | .... | .... | .... | 110 | 220 | 156 | 35 | 58 | 60 |
| 10.... | 93 | 70 | .... | .... | .... | .... | 100 | 270 | 156 | 36 | 55 | 60 |
| 11.... | 87 | 72 | .... | .... | .... | .... | 105 | 270 | 166 | 36 | 55 | 67 |
| 12.... | 79 | 65 | .... | .... | .... | .... | 110 | 247 | 160 | 25 | 56 | 60 |
| 13.... | 82 | 37 | .... | .... | .... | .... | 105 | 229 | 153 | 33 | 58 | 53 |
| 14.... | 87 | 55 | .... | .... | .... | .... | 100 | 212 | 130 | 33 | 56 | 51 |
| 15.... | 90 | 70 | .... | .... | .... | Mar. 16 | .... | .... | .... | .... | .... | .... |
| 16.... | 114 | 78 | .... | .... | .... | to 31 | 96 | 220 | 117 | 33 | 56 | 49 |
| 17.... | 120 | 82 | .... | .... | .... | 49 | 88 | 238 | 111 | 35 | 55 | 49 |
| 18.... | 99 | .... | .... | .... | .... | 52 | 86 | 204 | 111 | 32 | 51 | 47 |
| 19.... | 93 | .... | .... | .... | .... | 44 | 100 | 200 | 108 | 33 | 53 | 47 |
| 20.... | 87 | .... | .... | .... | .... | 48 | 111 | 275 | 111 | 31 | 53 | 47 |
| 21.... | 90 | .... | .... | .... | .... | 54 | 133 | 355 | 102 | 33 | 53 | 47 |
| 22.... | 84 | .... | .... | .... | .... | 62 | 188 | 350 | 90 | 34 | 53 | 47 |
| 23.... | 82 | .... | .... | .... | .... | 66 | 247 | 345 | 82 | 30 | 56 | 47 |
| 24.... | 79 | .... | .... | .... | .... | 64 | 290 | 310 | 82 | 29 | 51 | 46 |
| 25.... | 82 | .... | .... | .... | .... | 82 | 220 | 247 | 79 | 27 | 55 | 44 |
| 26.... | 79 | .... | .... | .... | .... | 80 | 192 | 220 | 74 | 28 | 58 | 47 |
| 27.... | 79 | .... | .... | .... | .... | 76 | 216 | 204 | 70 | 34 | 56 | 47 |
| 28.... | 93 | .... | .... | .... | .... | 66 | 234 | 192 | 62 | 35 | 56 | 47 |
| 29.... | 93 | .... | .... | .... | .... | 68 | 270 | 200 | 62 | 44 | 65 | 47 |
| 30.... | 84 | Nov. 1 | .... | .... | .... | 62 | 305 | 216 | 55 | 62 | 74 | 49 |
| 31.... | 79 | to 17 | .... | .... | .... | 64 | 270 | 234 | 55 | 72 | 67 | 47 |
| Total | 2761 | 1215 | .... | .... | .... | 74 | .... | 234 | .... | 51 | 62 | .... |
| Mean. | 89.1 | 71.5 | .... | .... | .... | 1011 | 4535 | 7816 | 4006 | 1222 | 1832 | 1524 |
| Max.. | 166 | 90 | .... | .... | .... | 63.2 | 151 | 252 | 134 | 39.4 | 59.1 | 50.8 |
| Min.. | 53 | 37 | .... | .... | .... | 82 | 305 | 355 | 256 | 72 | 127 | 67 |
| Acre-ft. | 5480 | 2410 | .... | .... | .... | 44 | 82 | 192 | 55 | 27 | 44 | 40 |
| | | | | | | 2010 | 9000 | 15500 | 7950 | 2420 | 3630 | 3020 |

Total run-off for period=51,420 acre-feet.

Discharge of Cebolla Creek at Powderhorn, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1.... | 46 | 55 | 51 | 42 | 39 | 33 | 42 | 61 | 96 | 40 | 45 | 39 |
| 2.... | 44 | 47 | 52 | 42 | 38 | 32 | 40 | 66 | 96 | 37 | 45 | 38 |
| 3.... | 42 | 44 | 57 | 42 | 36 | 32 | 43 | 70 | 86 | 30 | 39 | 40 |
| 4.... | 39 | 41 | 54 | 43 | 35 | 32 | 45 | 84 | 79 | 27 | 38 | 34 |
| 5.... | 40 | 42 | 54 | 43 | 34 | 32 | 49 | 84 | 73 | 26 | 34 | 34 |
| 6.... | 41 | 51 | 54 | 42 | 34 | 32 | 49 | 86 | 68 | 27 | 37 | 35 |
| 7.... | 41 | 40 | 55 | 38 | 34 | 31 | 49 | 88 | 66 | 26 | 42 | 36 |
| 8.... | 42 | 40 | 55 | 36 | 35 | 31 | 45 | 79 | 61 | 26 | 34 | 37 |
| 9.... | 44 | 49 | 55 | 38 | 35 | 31 | 45 | 81 | 61 | 29 | 35 | 38 |
| 10.... | 41 | 37 | 55 | 39 | 35 | 31 | 44 | 109 | 55 | 29 | 36 | 37 |
| 11.... | 42 | 37 | 51 | 39 | 34 | 31 | 50 | 156 | 56 | 29 | 36 | 37 |
| 12.... | 42 | 41 | 50 | 38 | 33 | 31 | 48 | 177 | 55 | 26 | 34 | 37 |
| 13.... | 41 | 40 | 49 | 35 | 33 | 31 | 55 | 136 | 52 | 23 | 32 | 33 |
| 14.... | 41 | 37 | 50 | 31 | 34 | 32 | 70 | 156 | 52 | 22 | 32 | 33 |
| 15.... | 41 | 38 | 50 | 31 | 34 | 33 | 81 | 149 | 53 | 23 | 33 | 36 |
| 16.... | 41 | 40 | 49 | 32 | 33 | 33 | 73 | 143 | 52 | 23 | 32 | 36 |
| 17.... | 44 | 41 | 48 | 34 | 33 | 33 | 64 | 153 | 52 | 27 | 32 | 36 |
| 18.... | 42 | 42 | 46 | 34 | 33 | 32 | 64 | 156 | 48 | 28 | 35 | 46 |
| 19.... | 44 | 40 | 45 | 33 | 34 | 31 | 79 | 120 | 46 | 28 | 46 | 47 |
| 20.... | 41 | 38 | 43 | 35 | 34 | 32 | 93 | 114 | 52 | 28 | 49 | 45 |
| 21.... | 40 | 38 | 45 | 35 | 32 | 33 | 104 | 120 | 53 | 33 | 46 | 44 |
| 22.... | 41 | 40 | 47 | 34 | 32 | 35 | 88 | 120 | 53 | 31 | 44 | 43 |
| 23.... | 44 | 43 | 47 | 34 | 33 | 36 | 84 | 109 | 46 | 36 | 44 | 44 |
| 24.... | 42 | 44 | 48 | 35 | 32 | 38 | 104 | 91 | 44 | 38 | 52 | 46 |
| 25.... | 44 | 45 | 47 | 36 | 31 | 39 | 96 | 88 | 38 | 34 | 49 | 48 |
| 26.... | 55 | 43 | 42 | 37 | 32 | 41 | 96 | 96 | 32 | 37 | 50 | 46 |
| 27.... | 49 | 42 | 38 | 37 | 34 | 44 | 104 | 96 | 32 | 50 | 45 | 49 |
| 28.... | 44 | 41 | 35 | 36 | 34 | 43 | 84 | 96 | 31 | 58 | 43 | 45 |
| 29.... | 51 | 45 | 36 | 36 | 33 | 39 | 73 | 93 | 27 | 61 | 43 | 43 |
| 30.... | 47 | 49 | 38 | 37 | .... | 38 | 68 | 93 | 30 | 53 | 42 | 48 |
| 31.... | 56 | .... | 40 | 38 | .... | 39 | .... | 96 | .... | 50 | 40 | .... |
| Total | 1352 | 1270 | 1486 | 1142 | 983 | 1061 | 2029 | 3366 | 1645 | 1037 | 1244 | 1209 |
| Mean. | 43.6 | 42.3 | 47.9 | 36.8 | 33.9 | 34.2 | 67.6 | 109 | 54.8 | 33.5 | 40.1 | 40.3 |
| Max.. | 56 | 55 | 57 | 43 | 39 | 44 | 104 | 177 | 96 | 61 | 52 | 49 |
| Min.. | 39 | 37 | 35 | 31 | 31 | 31 | 40 | 61 | 27 | 22 | 32 | 33 |
| Acre-ft. | 2680 | 2520 | 2950 | 2270 | 1950 | 2100 | 4020 | 6680 | 3260 | 2060 | 2470 | 2400 |

Total run-off for water year 1939-40=35,360 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Lake Fork River at Gateview, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------------|------|------|------|------|------|---------|------|-------|-------|-------|------|-------|
| 1.... | 94 | 138 | .... | .... | .... | .... | 127 | 320 | 853 | 330 | 196 | 96 |
| 2.... | 80 | 124 | .... | .... | .... | .... | 118 | 394 | 718 | 320 | 182 | 96 |
| 3.... | 102 | 127 | .... | .... | .... | .... | 124 | 406 | 742 | 316 | 168 | 86 |
| 4.... | 118 | 109 | .... | .... | .... | .... | 122 | 435 | 902 | 312 | 160 | 86 |
| 5.... | 117 | 131 | .... | .... | .... | .... | 118 | 510 | 1020 | 306 | 151 | 84 |
| 6.... | 149 | 120 | .... | .... | .... | .... | 122 | 570 | 938 | 309 | 166 | 92 |
| 7.... | 182 | 111 | .... | .... | .... | .... | 111 | 440 | 825 | 298 | 230 | 111 |
| 8.... | 203 | 107 | .... | .... | .... | .... | 116 | 378 | 778 | 292 | 208 | 129 |
| 9.... | 300 | 122 | .... | .... | .... | .... | 122 | 402 | 790 | 289 | 182 | 151 |
| 10.... | 260 | 113 | .... | .... | .... | .... | 122 | 535 | 790 | 274 | 166 | 153 |
| 11.... | 190 | 92 | .... | .... | .... | .... | 116 | 628 | 839 | 265 | 153 | 160 |
| 12.... | 180 | 84 | .... | .... | .... | .... | 118 | 646 | 832 | 256 | 142 | 171 |
| 13.... | 180 | 73 | .... | .... | .... | .... | 124 | 555 | 923 | 241 | 129 | 179 |
| 14.... | 185 | 73 | .... | .... | .... | .... | 133 | 490 | 954 | 235 | 124 | 175 |
| 15.... | 191 | 74 | .... | .... | .... | Mar. 16 | 127 | 495 | 881 | 225 | 118 | 162 |
| 16.... | 235 | 71 | .... | .... | .... | to 31 | 49 | 118 | 515 | 730 | 225 | 113 |
| 17.... | 241 | 100 | .... | .... | .... | 56 | 105 | 450 | 676 | 218 | 109 | 142 |
| 18.... | 228 | 84 | .... | .... | .... | 66 | 102 | 460 | 590 | 203 | 107 | 135 |
| 19.... | 208 | 71 | .... | .... | .... | 78 | 105 | 622 | 402 | 191 | 102 | 122 |
| 20.... | 193 | 86 | .... | .... | .... | 150 | 105 | 760 | 402 | 177 | 94 | 116 |
| 21.... | 179 | 86 | .... | .... | .... | 145 | 116 | 778 | 346 | 166 | 90 | 116 |
| 22.... | 171 | 84 | .... | .... | .... | 140 | 146 | 860 | 350 | 160 | 98 | 111 |
| 23.... | 160 | 65 | .... | .... | .... | 380 | 173 | 818 | 382 | 153 | 94 | 98 |
| 24.... | 155 | 51 | .... | .... | .... | 360 | 168 | 694 | 390 | 146 | 92 | 100 |
| 25.... | 149 | 55 | .... | .... | .... | 260 | 182 | 580 | 386 | 144 | 94 | 100 |
| 26.... | 153 | 57 | .... | .... | .... | 190 | 184 | 505 | 382 | 144 | 96 | 98 |
| 27.... | 151 | 59 | .... | .... | .... | 155 | 200 | 515 | 378 | 162 | 92 | 96 |
| 28.... | 129 | 60 | .... | .... | .... | 145 | 241 | 646 | 354 | 182 | 96 | 94 |
| 29.... | 124 | 60 | .... | .... | .... | 135 | 298 | 825 | 350 | 191 | 102 | 96 |
| 30.... | 133 | 58 | .... | .... | .... | 120 | 326 | 811 | 354 | 210 | 105 | 92 |
| 31.... | 140 | .... | .... | .... | .... | 115 | .... | 797 | .... | 218 | 94 | .... |
| Total | 5280 | 2645 | .... | .... | .... | 2544 | 4389 | 17840 | 19345 | 7158 | 4053 | 3600 |
| Mean. | 170 | 88.2 | .... | .... | .... | 159 | 146 | 575 | 645 | 231 | 131 | 120 |
| Max. | 300 | 138 | .... | .... | .... | 380 | 326 | 860 | 1020 | 330 | 230 | 179 |
| Min. | 80 | 51 | .... | .... | .... | 49 | 102 | 320 | 346 | 144 | 90 | 84 |
| Acre-ft. 10470 | 5250 | .... | .... | .... | .... | 5050 | 8710 | 35390 | 38370 | 14200 | 8040 | 7140 |

Total run-off for period=132,620 acre-feet.

Discharge of Lake Fork River at Gateview, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------------|------|------|------|------|------|------|-------|-------|-------|------|------|-------|
| 1.... | 88 | 51 | 37 | 38 | 40 | 40 | 61 | 155 | 1130 | 310 | 105 | 81 |
| 2.... | 82 | 54 | 37 | 38 | 41 | 40 | 55 | 155 | 1120 | 303 | 99 | 80 |
| 3.... | 86 | 51 | 36 | 38 | 42 | 39 | 54 | 179 | 1040 | 292 | 99 | 83 |
| 4.... | 76 | 48 | 36 | 38 | 42 | 40 | 54 | 245 | 884 | 269 | 91 | 80 |
| 5.... | 74 | 46 | 35 | 36 | 39 | 38 | 56 | 300 | 828 | 248 | 91 | 78 |
| 6.... | 73 | 50 | 35 | 35 | 38 | 36 | 56 | 310 | 699 | 233 | 91 | 76 |
| 7.... | 69 | 46 | 34 | 33 | 39 | 38 | 58 | 365 | 640 | 218 | 93 | 74 |
| 8.... | 71 | 45 | 34 | 33 | 39 | 43 | 56 | 393 | 635 | 209 | 91 | 76 |
| 9.... | 71 | 51 | 34 | 35 | 39 | 42 | 55 | 449 | 600 | 203 | 85 | 72 |
| 10.... | 71 | 48 | 33 | 36 | 39 | 36 | 55 | 560 | 514 | 191 | 83 | 69 |
| 11.... | 71 | 48 | 33 | 36 | 38 | 42 | 54 | 672 | 522 | 182 | 81 | 69 |
| 12.... | 69 | 51 | 33 | 35 | 38 | 44 | 54 | 728 | 575 | 173 | 74 | 67 |
| 13.... | 67 | 48 | 32 | 34 | 39 | 41 | 55 | 746 | 635 | 167 | 74 | 72 |
| 14.... | 65 | 46 | 33 | 33 | 38 | 40 | 64 | 740 | 688 | 164 | 67 | 69 |
| 15.... | 65 | 45 | 33 | 31 | 37 | 40 | 81 | 746 | 699 | 161 | 72 | 67 |
| 16.... | 65 | 45 | 34 | 31 | 37 | 41 | 85 | 752 | 595 | 161 | 74 | 67 |
| 17.... | 62 | 40 | 35 | 32 | 37 | 42 | 80 | 790 | 615 | 152 | 74 | 69 |
| 18.... | 64 | 38 | 34 | 33 | 38 | 41 | 80 | 625 | 575 | 150 | 71 | 80 |
| 19.... | 58 | 38 | 33 | 35 | 37 | 41 | 93 | 478 | 537 | 145 | 78 | 103 |
| 20.... | 56 | 38 | 32 | 37 | 37 | 41 | 120 | 429 | 537 | 197 | 93 | 108 |
| 21.... | 51 | 37 | 33 | 37 | 38 | 42 | 167 | 413 | 510 | 278 | 93 | 105 |
| 22.... | 57 | 35 | 35 | 35 | 39 | 44 | 197 | 381 | 501 | 188 | 89 | 110 |
| 23.... | 51 | 35 | 37 | 35 | 38 | 47 | 209 | 413 | 474 | 130 | 85 | 115 |
| 24.... | 58 | 36 | 39 | 35 | 37 | 49 | 230 | 501 | 453 | 145 | 93 | 118 |
| 25.... | 50 | 37 | 37 | 36 | 36 | 49 | 236 | 610 | 413 | 130 | 103 | 120 |
| 26.... | 57 | 35 | 35 | 39 | 35 | 48 | 251 | 688 | 385 | 128 | 99 | 105 |
| 27.... | 64 | 34 | 32 | 40 | 37 | 47 | 269 | 722 | 365 | 125 | 97 | 108 |
| 28.... | 60 | 33 | 33 | 38 | 38 | 47 | 236 | 849 | 334 | 120 | 93 | 105 |
| 29.... | 52 | 35 | 35 | 37 | 40 | 53 | 206 | 905 | 324 | 120 | 91 | 101 |
| 30.... | 50 | 36 | 36 | 37 | .... | 60 | 200 | 898 | 320 | 118 | 89 | 108 |
| 31.... | 51 | .... | 37 | 38 | .... | 60 | .... | 1060 | .... | 112 | 85 | .... |
| Total | 2004 | 1280 | 1072 | 1104 | 1112 | 1351 | 3527 | 17257 | 18157 | 5722 | 2703 | 2635 |
| Mean. | 64.6 | 42.7 | 34.6 | 35.6 | 38.3 | 43.6 | 118 | 557 | 605 | 185 | 87.2 | 87.8 |
| Max. | 88 | 54 | 39 | 40 | 42 | 60 | 269 | 1060 | 1130 | 310 | 105 | 120 |
| Min. | 50 | 33 | 32 | 31 | 35 | 36 | 54 | 155 | 320 | 112 | 67 | 67 |
| Acre-ft. 3970 | 2540 | 2130 | 2190 | 2210 | 2680 | 7000 | 34230 | 36010 | 11350 | 5360 | 5230 | .... |

Total run-off for water year 1939-40=114,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Gunnison River at Iola, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept |
|----------|-------|-------|-------|-------|------|-------|-------|--------|--------|-------|-------|-------|
| 1..... | 288 | 409 | 323 | 210 | 260 | 150 | 670 | 1980 | 3210 | 1040 | 934 | 800 |
| 2..... | 270 | 450 | 358 | 220 | 250 | 150 | 833 | 2220 | 2830 | 1010 | 910 | 800 |
| 3..... | 279 | 460 | 288 | 240 | 200 | 150 | 934 | 2050 | 2600 | 970 | 910 | 778 |
| 4..... | 288 | 460 | 242 | 250 | 170 | 170 | 1020 | 1990 | 2700 | 899 | 877 | 778 |
| 5..... | 279 | 481 | 288 | 270 | 160 | 180 | 1030 | 2200 | 2960 | 866 | 888 | 833 |
| 6..... | 409 | 470 | 288 | 260 | 180 | 180 | 994 | 2310 | 2850 | 800 | 922 | 855 |
| 7..... | 575 | 349 | 296 | 250 | 160 | 160 | 855 | 2000 | 2480 | 723 | 1150 | 970 |
| 8..... | 663 | 389 | 242 | 250 | 160 | 150 | 811 | 1840 | 2170 | 660 | 1070 | 982 |
| 9..... | 597 | 450 | 279 | 260 | 170 | 160 | 922 | 1810 | 2040 | 620 | 1020 | 899 |
| 10..... | 502 | 481 | 314 | 270 | 170 | 170 | 946 | 2050 | 1870 | 580 | 922 | 778 |
| 11..... | 450 | 543 | 256 | 250 | 150 | 190 | 844 | 2150 | 1870 | 630 | 833 | 789 |
| 12..... | 419 | 554 | 242 | 260 | 160 | 200 | 811 | 2100 | 1870 | 767 | 899 | 767 |
| 13..... | 389 | 460 | 242 | 270 | 170 | 190 | 866 | 1850 | 1900 | 778 | 866 | 756 |
| 14..... | 399 | 429 | 176 | 280 | 180 | 180 | 994 | 1890 | 1960 | 800 | 888 | 680 |
| 15..... | 440 | 440 | 170 | 280 | 180 | 171 | 946 | 1990 | 1900 | 844 | 899 | 500 |
| 16..... | 470 | 470 | 214 | 290 | 160 | 190 | 866 | 2020 | 1810 | 855 | 899 | 500 |
| 17..... | 491 | 522 | 270 | 270 | 150 | 240 | 734 | 1980 | 1720 | 811 | 866 | 334 |
| 18..... | 470 | 460 | 323 | 260 | 133 | 290 | 690 | 1930 | 1550 | 756 | 877 | 336 |
| 19..... | 419 | 450 | 290 | 270 | 130 | 350 | 745 | 2020 | 1400 | 734 | 888 | 313 |
| 20..... | 378 | 450 | 270 | 290 | 140 | 400 | 800 | 2330 | 1310 | 712 | 899 | 299 |
| 21..... | 378 | 481 | 300 | 300 | 160 | 560 | 866 | 2420 | 1220 | 811 | 910 | 285 |
| 22..... | 378 | 470 | 310 | 310 | 160 | 1200 | 1110 | 2600 | 1150 | 855 | 899 | 278 |
| 23..... | 368 | 378 | 290 | 308 | 150 | 1800 | 1320 | 2640 | 1160 | 844 | 877 | 271 |
| 24..... | 349 | 460 | 250 | 310 | 140 | 1650 | 1220 | 2380 | 1190 | 855 | 866 | 344 |
| 25..... | 340 | 389 | 230 | 300 | 150 | 1500 | 1070 | 2140 | 1210 | 877 | 844 | 392 |
| 26..... | 332 | 256 | 230 | 260 | 170 | 1420 | 1090 | 1920 | 1210 | 888 | 833 | 463 |
| 27..... | 349 | 249 | 250 | 220 | 180 | 1250 | 1170 | 1940 | 1150 | 922 | 811 | 481 |
| 28..... | 368 | 263 | 220 | 210 | 180 | 888 | 1400 | 2150 | 1110 | 994 | 844 | 500 |
| 29..... | 358 | 263 | 210 | 230 | .... | 778 | 1700 | 2600 | 1080 | 934 | 888 | 540 |
| 30..... | 378 | 279 | 210 | 260 | .... | 660 | 1870 | 3120 | 1050 | 899 | 888 | 500 |
| 31..... | 389 | .... | 210 | 270 | .... | 640 | .... | 3170 | .... | 934 | 855 | .... |
| Total | 12462 | 12665 | 8067 | 8178 | 4723 | 16367 | 30127 | 67790 | 54530 | 25668 | 27932 | 17851 |
| Mean... | 402 | 422 | 260 | 264 | 169 | 528 | 1004 | 2187 | 1818 | 828 | 901 | 595 |
| Max... | 663 | 554 | 358 | 310 | 260 | 1800 | 1870 | 3170 | 3210 | 1040 | 1150 | 982 |
| Min... | 270 | 249 | 170 | 210 | 130 | 150 | 670 | 1810 | 1050 | 580 | 811 | 271 |
| Acre-ft. | 24720 | 25120 | 16000 | 16220 | 9370 | 32460 | 59760 | 134500 | 108200 | 50910 | 55400 | 35410 |

Total run-off for water year 1938-39=568,100 acre-feet.

Discharge of Gunnison River at Iola, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1..... | 500 | 312 | 306 | 220 | 205 | 180 | 466 | 466 | 1490 | 282 | 767 | 650 |
| 2..... | 490 | 300 | 288 | 230 | 205 | 180 | 458 | 434 | 1460 | 276 | 833 | 620 |
| 3..... | 712 | 300 | 282 | 240 | 190 | 185 | 402 | 466 | 1440 | 255 | 833 | 610 |
| 4..... | 570 | 294 | 270 | 250 | 175 | 185 | 354 | 650 | 1290 | 235 | 811 | 610 |
| 5..... | 402 | 294 | 276 | 250 | 170 | 190 | 362 | 778 | 1200 | 330 | 800 | 570 |
| 6..... | 394 | 306 | 288 | 240 | 170 | 180 | 386 | 680 | 1100 | 510 | 877 | 530 |
| 7..... | 450 | 306 | 300 | 230 | 180 | 160 | 378 | 745 | 970 | 600 | 970 | 520 |
| 8..... | 442 | 300 | 288 | 230 | 185 | 166 | 354 | 745 | 888 | 620 | 910 | 520 |
| 9..... | 434 | 306 | 282 | 240 | 185 | 170 | 338 | 778 | 822 | 640 | 877 | 520 |
| 10..... | 434 | 312 | 270 | 250 | 182 | 170 | 338 | 1050 | 734 | 650 | 888 | 490 |
| 11..... | 426 | 294 | 265 | 250 | 180 | 170 | 312 | 1310 | 660 | 712 | 866 | 490 |
| 12..... | 418 | 300 | 270 | 223 | 180 | 180 | 294 | 1430 | 660 | 723 | 866 | 590 |
| 13..... | 418 | 312 | 245 | 210 | 175 | 195 | 346 | 1410 | 690 | 745 | 866 | 670 |
| 14..... | 426 | 318 | 245 | 200 | 180 | 180 | 426 | 1290 | 789 | 734 | 866 | 660 |
| 15..... | 426 | 312 | 250 | 195 | 185 | 180 | 510 | 1210 | 844 | 734 | 899 | 640 |
| 16..... | 426 | 300 | 260 | 205 | 185 | 200 | 560 | 1320 | 811 | 811 | 922 | 580 |
| 17..... | 426 | 300 | 260 | 210 | 180 | 220 | 458 | 1560 | 811 | 811 | 877 | 550 |
| 18..... | 426 | 318 | 250 | 220 | 170 | 240 | 450 | 1410 | 800 | 822 | 866 | 378 |
| 19..... | 426 | 330 | 240 | 205 | 180 | 240 | 520 | 1160 | 778 | 712 | 550 | 402 |
| 20..... | 426 | 330 | 235 | 215 | 185 | 250 | 660 | 1110 | 745 | 701 | 620 | 378 |
| 21..... | 434 | 330 | 240 | 220 | 185 | 270 | 833 | 1280 | 712 | 723 | 844 | 282 |
| 22..... | 434 | 324 | 250 | 210 | 170 | 320 | 899 | 1260 | 712 | 811 | 789 | 294 |
| 23..... | 434 | 318 | 260 | 200 | 170 | 380 | 866 | 1080 | 680 | 789 | 778 | 306 |
| 24..... | 434 | 312 | 265 | 200 | 180 | 450 | 922 | 1070 | 600 | 756 | 789 | 255 |
| 25..... | 458 | 312 | 260 | 205 | 180 | 450 | 855 | 1140 | 520 | 734 | 811 | 245 |
| 26..... | 474 | 300 | 250 | 210 | 180 | 482 | 767 | 1200 | 474 | 767 | 745 | 240 |
| 27..... | 490 | 312 | 230 | 220 | 185 | 530 | 789 | 1280 | 434 | 822 | 640 | 235 |
| 28..... | 482 | 306 | 215 | 220 | 185 | 510 | 701 | 1260 | 434 | 822 | 474 | 230 |
| 29..... | 482 | 294 | 210 | 200 | 185 | 450 | 630 | 1280 | 300 | 778 | 474 | 225 |
| 30..... | 474 | 288 | 210 | 195 | .... | 410 | 550 | 1290 | 288 | 778 | 640 | 225 |
| 31..... | 370 | .... | 220 | 195 | .... | 434 | .... | 1390 | .... | 811 | 660 | .... |
| Total | 14038 | 9240 | 7980 | 6788 | 5267 | 8507 | 16184 | 33532 | 24064 | 20494 | 24408 | 13475 |
| Mean... | 453 | 308 | 257 | 219 | 182 | 274 | 539 | 1082 | 802 | 661 | 787 | 449 |
| Max... | 712 | 330 | 306 | 250 | 205 | 530 | 922 | 1560 | 1490 | 822 | 970 | 670 |
| Min... | 370 | 288 | 210 | 195 | 170 | 160 | 294 | 434 | 288 | 235 | 474 | 225 |
| Ac.-ft. | 27840 | 18330 | 15830 | 13460 | 10450 | 16870 | 32100 | 66510 | 47730 | 40650 | 48410 | 26730 |

Total run-off for water year 1939-40=364,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of North Fork of Gunnison River Near Somerset, Colo., for Year Ending
Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|-------|-------|--------|-------|-------|------|-------|
| 1.... | 94 | 101 | 100 | 70 | 62 | 56 | 315 | 2170 | 1560 | 278 | 154 | 88 |
| 2.... | 94 | 114 | 96 | 72 | 54 | 60 | 421 | 2290 | 1370 | 270 | 121 | 84 |
| 3.... | 92 | 107 | 94 | 68 | 52 | 66 | 548 | 2170 | 1320 | 255 | 110 | 74 |
| 4.... | 90 | 107 | 92 | 66 | 56 | 64 | 630 | 2260 | 1380 | 236 | 103 | 70 |
| 5.... | 90 | 112 | 90 | 68 | 58 | 58 | 728 | 2430 | 1430 | 225 | 101 | 80 |
| 6.... | 88 | 90 | 88 | 66 | 56 | 64 | 638 | 2430 | 1300 | 214 | 124 | 141 |
| 7.... | 92 | 61 | 88 | 64 | 58 | 68 | 489 | 2020 | 1090 | 197 | 167 | 221 |
| 8.... | 136 | 68 | 82 | 62 | 60 | 72 | 512 | 1820 | 1010 | 194 | 131 | 188 |
| 9.... | 128 | 66 | 86 | 60 | 54 | 76 | 646 | 1920 | 911 | 185 | 110 | 173 |
| 10.... | 116 | 92 | 84 | 62 | 50 | 72 | 560 | 2090 | 830 | 182 | 103 | 151 |
| 11.... | 114 | 100 | 86 | 60 | 52 | 74 | 484 | 2160 | 870 | 173 | 99 | 221 |
| 12.... | 110 | 103 | 88 | 58 | 50 | 76 | 512 | 1970 | 900 | 164 | 92 | 228 |
| 13.... | 107 | 61 | 80 | 60 | 52 | 86 | 662 | 1780 | 933 | 161 | 90 | 179 |
| 14.... | 105 | 70 | 64 | 58 | 50 | 96 | 710 | 1780 | 988 | 154 | 88 | 156 |
| 15.... | 107 | 100 | 74 | 60 | 50 | 99 | 536 | 1830 | 860 | 148 | 90 | 141 |
| 16.... | 107 | 120 | 76 | 62 | 52 | 99 | 489 | 1820 | 710 | 146 | 92 | 126 |
| 17.... | 121 | 116 | 70 | 60 | 49 | 114 | 416 | 1650 | 638 | 141 | 88 | 116 |
| 18.... | 112 | 103 | 68 | 62 | 52 | 119 | 416 | 1620 | 518 | 148 | 86 | 112 |
| 19.... | 107 | 112 | 70 | 64 | 50 | 143 | 495 | 1770 | 446 | 143 | 80 | 103 |
| 20.... | 103 | 116 | 72 | 66 | 48 | 179 | 512 | 1890 | 391 | 138 | 80 | 96 |
| 21.... | 101 | 110 | 82 | 65 | 48 | 228 | 782 | 1860 | 373 | 136 | 80 | 96 |
| 22.... | 99 | 103 | 78 | 68 | 50 | 270 | 1180 | 1900 | 368 | 138 | 80 | 101 |
| 23.... | 96 | 94 | 72 | 66 | 52 | 298 | 1350 | 1850 | 391 | 136 | 72 | 99 |
| 24.... | 94 | 76 | 68 | 62 | 52 | 332 | 1200 | 1660 | 416 | 133 | 68 | 94 |
| 25.... | 94 | 66 | 64 | 58 | 54 | 359 | 977 | 1410 | 411 | 133 | 67 | 92 |
| 26.... | 92 | 100 | 68 | 60 | 58 | 368 | 988 | 1170 | 373 | 131 | 67 | 90 |
| 27.... | 92 | 105 | 66 | 62 | 56 | 359 | 1280 | 1120 | 337 | 131 | 74 | 88 |
| 28.... | 94 | 105 | 68 | 64 | 54 | 306 | 1680 | 1180 | 332 | 159 | 86 | 92 |
| 29.... | 90 | 105 | 66 | 62 | 50 | 290 | 2010 | 1360 | 324 | 154 | 116 | 99 |
| 30.... | 92 | 100 | 68 | 64 | .... | 243 | 2170 | 1530 | 298 | 133 | 96 | 92 |
| 31.... | 90 | .... | 68 | 66 | .... | 255 | .... | 1520 | .... | 143 | 88 | .... |
| Total | 3147 | 2883 | 2416 | 1965 | 1489 | 5045 | 24336 | 56430 | 25078 | 5279 | 3003 | 3691 |
| Mean. | 102 | 96.1 | 77.9 | 63.4 | 53.2 | 163 | 811 | 1820 | 769 | 170 | 96.9 | 123 |
| Max. | 136 | 120 | 100 | 72 | 62 | 368 | 2170 | 2430 | 1560 | 278 | 167 | 228 |
| Min. | 88 | 61 | 64 | 58 | 49 | 56 | 315 | 1120 | 298 | 131 | 67 | 70 |
| Acre-ft. | 6240 | 5720 | 4790 | 3900 | 2950 | 10010 | 48270 | 111900 | 45770 | 10470 | 5960 | 7320 |

Total run-off for water year 1938-39=263,300 acre-feet.

**Discharge of North Fork Gunnison River Near Somerset, Colorado, for Year Ending
Sept. 30, 1940.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|--------|-------|------|------|-------|
| 1.... | 86 | 70 | 58 | 54 | 55 | 68 | 236 | 810 | 1680 | 262 | 78 | 63 |
| 2.... | 78 | 69 | 56 | 52 | 57 | 65 | 236 | 933 | 1600 | 243 | 75 | 63 |
| 3.... | 73 | 69 | 56 | 52 | 57 | 63 | 197 | 1360 | 1500 | 221 | 72 | 62 |
| 4.... | 81 | 68 | 55 | 52 | 55 | 62 | 194 | 1920 | 1360 | 211 | 69 | 61 |
| 5.... | 81 | 68 | 55 | 52 | 54 | 66 | 225 | 2020 | 1220 | 201 | 68 | 60 |
| 6.... | 78 | 70 | 54 | 52 | 50 | 72 | 282 | 1950 | 1090 | 188 | 70 | 58 |
| 7.... | 76 | 69 | 57 | 54 | 56 | 66 | 251 | 2030 | 922 | 175 | 78 | 57 |
| 8.... | 81 | 65 | 58 | 50 | 50 | 68 | 228 | 1980 | 900 | 168 | 73 | 56 |
| 9.... | 90 | 69 | 62 | 45 | 55 | 72 | 218 | 2160 | 746 | 159 | 69 | 55 |
| 10.... | 88 | 63 | 62 | 43 | 55 | 73 | 204 | 2380 | 638 | 146 | 68 | 55 |
| 11.... | 88 | 57 | 60 | 43 | 55 | 75 | 172 | 2470 | 678 | 140 | 68 | 55 |
| 12.... | 86 | 62 | 60 | 44 | 52 | 66 | 159 | 2500 | 773 | 133 | 65 | 55 |
| 13.... | 83 | 63 | 40 | 43 | 54 | 62 | 188 | 2460 | 820 | 124 | 68 | 60 |
| 14.... | 83 | 62 | 50 | 42 | 57 | 55 | 298 | 2310 | 870 | 121 | 68 | 62 |
| 15.... | 81 | 60 | 48 | 35 | 56 | 60 | 457 | 2070 | 860 | 136 | 68 | 61 |
| 16.... | 78 | 52 | 56 | 39 | 50 | 73 | 500 | 2170 | 764 | 159 | 65 | 60 |
| 17.... | 75 | 50 | 55 | 40 | 48 | 93 | 416 | 2080 | 728 | 143 | 63 | 68 |
| 18.... | 73 | 49 | 57 | 41 | 51 | 83 | 411 | 1710 | 678 | 136 | 63 | 88 |
| 19.... | 72 | 49 | 44 | 40 | 56 | 103 | 560 | 1600 | 609 | 115 | 65 | 103 |
| 20.... | 70 | 62 | 48 | 39 | 50 | 118 | 870 | 1500 | 560 | 109 | 81 | 124 |
| 21.... | 69 | 56 | 49 | 39 | 48 | 136 | 1160 | 1530 | 518 | 127 | 68 | 109 |
| 22.... | 69 | 57 | 52 | 41 | 56 | 168 | 1310 | 1380 | 489 | 124 | 66 | 159 |
| 23.... | 69 | 66 | 50 | 40 | 54 | 208 | 1350 | 1360 | 446 | 124 | 63 | 143 |
| 24.... | 68 | 70 | 51 | 40 | 54 | 243 | 1490 | 1440 | 406 | 121 | 70 | 143 |
| 25.... | 68 | 68 | 51 | 47 | 54 | 274 | 1470 | 1580 | 359 | 112 | 83 | 118 |
| 26.... | 78 | 69 | 52 | 50 | 56 | 298 | 1610 | 1670 | 337 | 109 | 115 | 112 |
| 27.... | 83 | 78 | 44 | 54 | 58 | 324 | 1680 | 1670 | 302 | 112 | 93 | 95 |
| 28.... | 69 | 66 | 37 | 50 | 58 | 298 | 1430 | 1610 | 286 | 124 | 86 | 90 |
| 29.... | 73 | 65 | 45 | 50 | 62 | 232 | 1160 | 1620 | 274 | 98 | 76 | 136 |
| 30.... | 68 | 57 | 50 | 51 | .... | 194 | 922 | 1620 | 266 | 90 | 70 | 181 |
| 31.... | 69 | .... | 55 | 54 | .... | 211 | .... | 1710 | .... | 83 | 65 | .... |
| Total | 2384 | 1898 | 1627 | 1428 | 1573 | 4049 | 19884 | 55603 | 22679 | 4514 | 2249 | 2612 |
| Mean. | 76.9 | 63.3 | 52.5 | 46.1 | 54.2 | 131 | 663 | 1794 | 756 | 146 | 72.5 | 87.1 |
| Max. | 90 | 78 | 62 | 54 | 62 | 324 | 1680 | 2500 | 1680 | 262 | 115 | 181 |
| Min. | 68 | 49 | 37 | 35 | 48 | 55 | 159 | 810 | 266 | 83 | 63 | 55 |
| Acre-ft. | 4730 | 3760 | 3230 | 2830 | 3120 | 8030 | 39440 | 110300 | 44980 | 8950 | 4460 | 5180 |

Total run-off for water year 1939-40=239,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of East Muddy Creek Near Bardine, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|--------|-------|-------|-------|---------|-------|-------|-------|------|------|-------|
| 1..... | 19 | 21 | ..... | ..... | ..... | ..... | 76 | 426 | 208 | 27 | 36 | 13 |
| 2..... | 19 | 23 | ..... | ..... | ..... | ..... | 100 | 432 | 157 | 27 | 22 | 11 |
| 3..... | 18 | 23 | ..... | ..... | ..... | ..... | 120 | 426 | 132 | 25 | 19 | 10 |
| 4..... | 18 | 22 | ..... | ..... | ..... | ..... | 140 | 482 | 129 | 25 | 18 | 10 |
| 5..... | 16 | 23 | ..... | ..... | ..... | ..... | 160 | 503 | 132 | 23 | 19 | 11 |
| 6..... | 18 | 24 | ..... | ..... | ..... | ..... | 120 | 516 | 120 | 22 | 20 | 20 |
| 7..... | 19 | 28 | ..... | ..... | ..... | ..... | 94 | 426 | 100 | 20 | 27 | 22 |
| 8..... | 31 | 32 | ..... | ..... | ..... | ..... | 98 | 380 | 92 | 20 | 20 | 16 |
| 9..... | 30 | 26 | ..... | ..... | ..... | ..... | 135 | 414 | 81 | 20 | 19 | 15 |
| 10..... | 26 | 30 | ..... | ..... | ..... | ..... | 120 | 432 | 74 | 20 | 18 | 13 |
| 11..... | 23 | ..... | ..... | ..... | ..... | Mar. 13 | 94 | 432 | 72 | 19 | 16 | 19 |
| 12..... | 21 | ..... | ..... | ..... | ..... | to 31 | 98 | 391 | 69 | 18 | 15 | 20 |
| 13..... | 21 | ..... | ..... | ..... | ..... | 19 | 135 | 328 | 69 | 18 | 15 | 18 |
| 14..... | 21 | ..... | ..... | ..... | ..... | 20 | 145 | 303 | 67 | 16 | 15 | 15 |
| 15..... | 21 | ..... | ..... | ..... | ..... | 20 | 115 | 313 | 62 | 15 | 14 | 14 |
| 16..... | 21 | ..... | ..... | ..... | ..... | 22 | 92 | 323 | 58 | 14 | 14 | 14 |
| 17..... | 21 | ..... | ..... | ..... | ..... | 24 | 100 | 289 | 52 | 14 | 14 | 14 |
| 18..... | 21 | ..... | ..... | ..... | ..... | 28 | 80 | 270 | 48 | 15 | 13 | 14 |
| 19..... | 21 | ..... | ..... | ..... | ..... | 36 | 94 | 280 | 48 | 18 | 11 | 13 |
| 20..... | 21 | ..... | ..... | ..... | ..... | 44 | 110 | 293 | 46 | 19 | 11 | 13 |
| 21..... | 20 | ..... | ..... | ..... | ..... | 54 | 160 | 270 | 44 | 20 | 13 | 13 |
| 22..... | 20 | ..... | ..... | ..... | ..... | 60 | 232 | 261 | 40 | 22 | 13 | 13 |
| 23..... | 21 | ..... | ..... | ..... | ..... | 66 | 266 | 244 | 38 | 22 | 11 | 13 |
| 24..... | 19 | ..... | ..... | ..... | ..... | 70 | 224 | 208 | 36 | 22 | 10 | 13 |
| 25..... | 19 | ..... | ..... | ..... | ..... | 62 | 187 | 180 | 36 | 22 | 11 | 13 |
| 26..... | 19 | ..... | ..... | ..... | ..... | 62 | 183 | 147 | 34 | 22 | 10 | 13 |
| 27..... | 19 | ..... | ..... | ..... | ..... | 60 | 228 | 132 | 32 | 22 | 10 | 13 |
| 28..... | 21 | ..... | ..... | ..... | ..... | 56 | 328 | 132 | 31 | 25 | 13 | 14 |
| 29..... | 21 | ..... | ..... | ..... | ..... | 50 | 402 | 129 | 29 | 36 | 14 | 16 |
| 30..... | 19 | Nov. 1 | ..... | ..... | ..... | 52 | 426 | 135 | 29 | 25 | 14 | 14 |
| 31..... | 19 | to 10 | ..... | ..... | ..... | 64 | ..... | 144 | ..... | 40 | 15 | ..... |
| Total | 643 | 252 | ..... | ..... | ..... | 869 | 4862 | 9641 | 2165 | 673 | 490 | 430 |
| Mean... | 20.7 | 25.2 | ..... | ..... | ..... | 45.7 | 162 | 311 | 72.2 | 21.7 | 15.8 | 14.3 |
| Max... | 31 | 32 | ..... | ..... | ..... | 70 | 426 | 516 | 208 | 40 | 36 | 22 |
| Min... | 16 | 21 | ..... | ..... | ..... | 19 | 76 | 129 | 29 | 14 | 10 | 10 |
| Acre-ft. | 1280 | 500 | ..... | ..... | ..... | 1720 | 9640 | 19120 | 4290 | 1330 | 972 | 853 |

Total run-off for period=39,705 acre-feet.

Discharge of East Muddy Creek Near Bardine, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|-------|-------|------|-------|-------|-------|------|-------|-------|
| 1..... | 13 | 14 | 16 | ..... | ..... | 12 | 48 | 173 | 138 | 27 | 12 | 9.4 |
| 2..... | 11 | 14 | 14 | ..... | ..... | 12 | 46 | 212 | 135 | 27 | 16 | 8.9 |
| 3..... | 11 | 14 | 14 | ..... | ..... | 12 | 42 | 323 | 126 | 23 | 18 | 8.9 |
| 4..... | 11 | 13 | 14 | ..... | ..... | 11 | 40 | 469 | 111 | 22 | 18 | 8.9 |
| 5..... | 13 | 14 | 11 | ..... | ..... | 12 | 46 | 530 | 100 | 20 | 17 | 8.4 |
| 6..... | 11 | 14 | 11 | ..... | ..... | 13 | 50 | 496 | 94 | 20 | 19 | 8.4 |
| 7..... | 11 | 13 | 13 | ..... | ..... | 12 | 48 | 496 | 81 | 20 | 19 | 7.8 |
| 8..... | 15 | 13 | 14 | ..... | ..... | 12 | 46 | 456 | 76 | 19 | 16 | 7.8 |
| 9..... | 16 | 13 | 14 | ..... | ..... | 13 | 44 | 510 | 72 | 18 | 15 | 7.2 |
| 10..... | 14 | 14 | 14 | ..... | ..... | 13 | 42 | 496 | 64 | 15 | 15 | 7.2 |
| 11..... | 13 | 14 | 14 | ..... | ..... | 14 | 38 | 489 | 62 | 15 | 15 | 7.2 |
| 12..... | 13 | 14 | 14 | ..... | ..... | 13 | 36 | 489 | 62 | 15 | 14 | 7.2 |
| 13..... | 13 | 14 | 9 | ..... | ..... | 11 | 40 | 516 | 62 | 14 | 13 | 9.4 |
| 14..... | 13 | 14 | 11 | ..... | ..... | 10 | 54 | 482 | 56 | 13 | 13 | 11 |
| 15..... | 13 | 14 | 12 | ..... | ..... | 12 | 79 | 420 | 56 | 11 | 13 | 9.4 |
| 16..... | 13 | 14 | 13 | ..... | ..... | 14 | 108 | 420 | 52 | 11 | 13 | 8.9 |
| 17..... | 13 | 15 | 13 | ..... | ..... | 17 | 81 | 359 | 50 | 11 | 11 | 9.4 |
| 18..... | 13 | 16 | 13 | ..... | ..... | 15 | 72 | 298 | 48 | 13 | 13 | 20 |
| 19..... | 11 | 15 | 10 | ..... | ..... | 19 | 94 | 266 | 46 | 14 | 14 | 19 |
| 20..... | 11 | 14 | 11 | ..... | ..... | 21 | 150 | 240 | 42 | 13 | 14 | 20 |
| 21..... | 11 | 14 | 12 | ..... | ..... | 24 | 201 | 228 | 40 | 13 | 14 | 18 |
| 22..... | 13 | 15 | 12 | ..... | ..... | 29 | 248 | 201 | 38 | 11 | 14 | 22 |
| 23..... | 11 | 18 | 12 | ..... | ..... | 35 | 270 | 187 | 36 | 11 | 15 | 19 |
| 24..... | 11 | 15 | 12 | ..... | ..... | 45 | 232 | 183 | 31 | 13 | 19 | 19 |
| 25..... | 11 | 16 | 12 | ..... | ..... | 52 | 308 | 180 | 27 | 14 | 22 | 16 |
| 26..... | 18 | 14 | 12 | ..... | ..... | 56 | 313 | 183 | 25 | 13 | 23 | 16 |
| 27..... | 18 | 11 | 11 | ..... | ..... | 60 | 333 | 176 | 25 | 13 | 19 | 14 |
| 28..... | 15 | 13 | 9 | ..... | ..... | 54 | 284 | 157 | 22 | 16 | 14 | 14 |
| 29..... | 14 | 11 | 10 | ..... | ..... | 44 | 224 | 160 | 22 | 14 | 13 | 22 |
| 30..... | 15 | 13 | 11 | ..... | ..... | 40 | 190 | 150 | 25 | 13 | 10 | 36 |
| 31..... | 14 | ..... | 13 | ..... | ..... | 46 | ..... | 147 | ..... | 11 | 9.4 | ..... |
| Total | 403 | 420 | 381 | ..... | ..... | 753 | 3807 | 10092 | 1824 | 483 | 470.4 | 400.4 |
| Mean... | 13.0 | 14.0 | 12.3 | ..... | ..... | 24.3 | 127 | 326 | 60.8 | 15.6 | 15.2 | 13.3 |
| Max... | 18 | 18 | 16 | ..... | ..... | 60 | 333 | 530 | 138 | 27 | 23 | 36 |
| Min... | 11 | 11 | 9 | ..... | ..... | 10 | 36 | 147 | 22 | 11 | 9.4 | 7.2 |
| Acre-ft. | 799 | 833 | 756 | ..... | ..... | 1490 | 7550 | 20020 | 3620 | 958 | 933 | 794 |

Total run-off for period=37,750 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Gunnison River Near Grand Junction, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|-------|
| 1.... | 856 | 1080 | 1130 | 1060 | 1080 | 1080 | 2020 | 7060 | 6760 | 1080 | 892 | 618 |
| 2.... | 840 | 1170 | 1230 | 1050 | 981 | 1040 | 2340 | 7210 | 6870 | 1040 | 830 | 578 |
| 3.... | 786 | 1400 | 1350 | 1090 | 929 | 1020 | 2850 | 7520 | 6010 | 1040 | 755 | 506 |
| 4.... | 773 | 1350 | 1200 | 1140 | 911 | 1020 | 3610 | 7120 | 5800 | 1010 | 660 | 482 |
| 5.... | 848 | 1150 | 1170 | 1170 | 1010 | 1000 | 4140 | 7110 | 6290 | 954 | 629 | 482 |
| 6.... | 838 | 1400 | 1140 | 1080 | 1050 | 1000 | 4280 | 7830 | 6890 | 863 | 570 | 632 |
| 7.... | 816 | 1420 | 1130 | 1230 | 1050 | 1020 | 3980 | 7590 | 6250 | 771 | 750 | 1290 |
| 8.... | 1050 | 1270 | 1070 | 1120 | 978 | 1100 | 4070 | 6210 | 5450 | 699 | 1310 | 1080 |
| 9.... | 1990 | 1230 | 1140 | 1140 | 981 | 1200 | 3430 | 5550 | 5000 | 575 | 1320 | 1250 |
| 10.... | 1830 | 1420 | 1140 | 1140 | 926 | 1250 | 4040 | 5930 | 4700 | 487 | 1040 | 1360 |
| 11.... | 1580 | 1540 | 1150 | 1120 | 900 | 1190 | 3690 | 6680 | 4490 | 443 | 908 | 1510 |
| 12.... | 1500 | 1540 | 1170 | 1060 | 1010 | 1130 | 3050 | 6790 | 4750 | 399 | 744 | 1890 |
| 13.... | 1430 | 1520 | 1140 | 1030 | 904 | 1080 | 3050 | 6180 | 5050 | 347 | 564 | 1740 |
| 14.... | 1390 | 1340 | 1020 | 1030 | 960 | 1130 | 3470 | 5490 | 5350 | 333 | 543 | 1960 |
| 15.... | 1380 | 1190 | 996 | 1020 | 1040 | 1120 | 3530 | 5420 | 5180 | 354 | 579 | 1520 |
| 16.... | 1390 | 1220 | 858 | 1000 | 970 | 1090 | 3130 | 5630 | 4670 | 347 | 466 | 1490 |
| 17.... | 1480 | 1330 | 1080 | 970 | 1010 | 1250 | 2680 | 5720 | 3700 | 382 | 455 | 1290 |
| 18.... | 1580 | 1390 | 1300 | 1000 | 928 | 1380 | 2200 | 5040 | 3420 | 428 | 418 | 1230 |
| 19.... | 1580 | 1270 | 1150 | 1050 | 858 | 1470 | 2000 | 4960 | 2950 | 435 | 375 | 1080 |
| 20.... | 1470 | 1210 | 1100 | 1020 | 985 | 1520 | 2240 | 5640 | 2510 | 389 | 352 | 968 |
| 21.... | 1400 | 1290 | 1030 | 977 | 967 | 1680 | 2450 | 6570 | 2150 | 342 | 359 | 912 |
| 22.... | 1360 | 1300 | 1080 | 964 | 943 | 1600 | 3380 | 6790 | 1710 | 328 | 381 | 845 |
| 23.... | 1340 | 1200 | 1080 | 1020 | 928 | 2300 | 4580 | 7040 | 1480 | 307 | 380 | 773 |
| 24.... | 1280 | 1160 | 1010 | 1120 | 967 | 3080 | 5160 | 6780 | 1490 | 328 | 410 | 776 |
| 25.... | 1210 | 1070 | 895 | 1000 | 1090 | 3590 | 4520 | 5900 | 1470 | 379 | 394 | 693 |
| 26.... | 1160 | 1090 | 930 | 911 | 1220 | 3830 | 3720 | 5030 | 1520 | 379 | 366 | 656 |
| 27.... | 1160 | 1220 | 906 | 856 | 1200 | 3700 | 3650 | 4300 | 1500 | 423 | 362 | 689 |
| 28.... | 1100 | 1150 | 977 | 853 | 1150 | 3420 | 4400 | 4190 | 1330 | 494 | 372 | 784 |
| 29.... | 1090 | 1160 | 1080 | 1010 | .... | 2810 | 5660 | 4750 | 1290 | 600 | 723 | 854 |
| 30.... | 1060 | 1160 | 1090 | 1120 | .... | 2500 | 6580 | 5540 | 1150 | 916 | 676 | 889 |
| 31.... | 1020 | .... | 1080 | 1010 | .... | 2040 | .... | 6370 | .... | 888 | 631 | .... |
| Total | 38587 | 38240 | 35822 | 32361 | 27926 | 53640 | 107900 | 189940 | 117180 | 17760 | 19214 | 30847 |
| Mean. | 1245 | 1275 | 1091 | 1044 | 897 | 1730 | 3597 | 6127 | 3906 | 573 | 620 | 1028 |
| Max. | 1990 | 1540 | 1350 | 1230 | 1220 | 3830 | 6580 | 7830 | 6890 | 1080 | 1320 | 1960 |
| Min. | 773 | 1070 | 858 | 853 | 858 | 1000 | 2000 | 4190 | 1150 | 307 | 352 | 482 |
| Ac-ft. | 76540 | 78550 | 67080 | 64190 | 55390 | 106400 | 214000 | 376700 | 232400 | 35230 | 38110 | 61180 |

Total run-off for water year 1938-39=1,403,000 acre-feet.

Discharge of Gunnison River Near Grand Junction, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|-------|-------|
| 1.... | 953 | 917 | 992 | 852 | 870 | 726 | 1200 | 2870 | 3470 | 761 | 507 | 590 |
| 2.... | 925 | 985 | 928 | 914 | 913 | 873 | 1410 | 2510 | 3180 | 697 | 437 | 614 |
| 3.... | 911 | 1060 | 907 | 906 | 944 | 837 | 1370 | 2680 | 3260 | 646 | 429 | 622 |
| 4.... | 1030 | 1040 | 928 | 894 | 913 | 822 | 1190 | 3580 | 3590 | 570 | 384 | 582 |
| 5.... | 1070 | 1020 | 907 | 896 | 936 | 790 | 1080 | 5310 | 4170 | 543 | 362 | 500 |
| 6.... | 1150 | 999 | 902 | 877 | 962 | 782 | 968 | 5680 | 4650 | 511 | 377 | 472 |
| 7.... | 867 | 1010 | 897 | 858 | 747 | 819 | 1090 | 5550 | 4270 | 444 | 362 | 441 |
| 8.... | 800 | 1020 | 871 | 824 | 759 | 798 | 1100 | 5710 | 3640 | 417 | 369 | 456 |
| 9.... | 825 | 1000 | 886 | 760 | 741 | 767 | 968 | 5820 | 3590 | 439 | 377 | 448 |
| 10.... | 882 | 1070 | 909 | 976 | 741 | 775 | 860 | 6470 | 3250 | 392 | 421 | 441 |
| 11.... | 880 | 1080 | 948 | 814 | 741 | 840 | 795 | 7590 | 2780 | 368 | 369 | 418 |
| 12.... | 895 | 1020 | 913 | 862 | 729 | 874 | 731 | 8180 | 2740 | 390 | 355 | 411 |
| 13.... | 880 | 991 | 905 | 891 | 705 | 824 | 584 | 8560 | 3010 | 376 | 334 | 542 |
| 14.... | 858 | 1020 | 864 | 803 | 677 | 737 | 511 | 8530 | 3430 | 376 | 327 | 466 |
| 15.... | 835 | 1030 | 745 | 800 | 698 | 724 | 708 | 7640 | 3290 | 383 | 313 | 669 |
| 16.... | 814 | 1010 | 700 | 738 | 719 | 730 | 1540 | 7180 | 3750 | 398 | 320 | 741 |
| 17.... | 795 | 981 | 757 | 703 | 698 | 756 | 1810 | 7220 | 3110 | 555 | 320 | 756 |
| 18.... | 772 | 930 | 822 | 655 | 677 | 823 | 1450 | 8150 | 3040 | 522 | 306 | 818 |
| 19.... | 745 | 907 | 839 | 602 | 677 | 854 | 1240 | 6680 | 2770 | 578 | 341 | 1040 |
| 20.... | 740 | 925 | 774 | 665 | 691 | 868 | 1730 | 5510 | 2510 | 578 | 525 | 1040 |
| 21.... | 731 | 918 | 705 | 695 | 677 | 889 | 3160 | 4970 | 2240 | 530 | 436 | 1100 |
| 22.... | 716 | 955 | 709 | 700 | 677 | 954 | 4250 | 5180 | 2030 | 482 | 588 | 1120 |
| 23.... | 694 | 988 | 704 | 680 | 698 | 1010 | 4310 | 4770 | 1940 | 436 | 474 | 1140 |
| 24.... | 682 | 974 | 756 | 696 | 740 | 1130 | 4360 | 4500 | 1790 | 420 | 629 | 1190 |
| 25.... | 660 | 1000 | 767 | 740 | 772 | 1310 | 4760 | 4560 | 1590 | 458 | 835 | 1230 |
| 26.... | 678 | 1010 | 784 | 790 | 796 | 1470 | 4570 | 4300 | 1290 | 437 | 944 | 1200 |
| 27.... | 815 | 1040 | 740 | 780 | 1040 | 1630 | 4800 | 3990 | 1090 | 414 | 1100 | 1180 |
| 28.... | 837 | 1080 | 625 | 830 | 900 | 1900 | 4850 | 3960 | 943 | 369 | 1050 | 1110 |
| 29.... | 873 | 1100 | 600 | 810 | 828 | 1840 | 3980 | 3870 | 811 | 407 | 886 | 1500 |
| 30.... | 836 | 1050 | 661 | 790 | .... | 1450 | 3330 | 3870 | 718 | 611 | 757 | 1840 |
| 31.... | 852 | .... | 737 | 780 | .... | 1350 | .... | 3870 | .... | 555 | 657 | .... |
| Total | 26001 | 30130 | 25182 | 24381 | 22666 | 30952 | 64705 | 169260 | 81942 | 15063 | 15891 | 24677 |
| Mean. | 839 | 1004 | 812 | 786 | 782 | 998 | 2157 | 5460 | 2731 | 486 | 513 | 823 |
| Max. | 1150 | 1100 | 992 | 914 | 1040 | 1900 | 4850 | 8560 | 4650 | 761 | 1100 | 1840 |
| Min. | 660 | 907 | 600 | 602 | 677 | 724 | 511 | 2510 | 718 | 368 | 306 | 411 |
| Ac.-ft. | 51570 | 59760 | 49950 | 48360 | 44960 | 61390 | 128300 | 335700 | 162500 | 29880 | 31520 | 48950 |

Total run-off for water year 1939-40=1,053,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Leroux Creek, Near Cedaredge, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|------|------|------|-------|
| 1.... | 11 | 12 | .... | .... | .... | .... | 23 | 301 | 145 | 22 | 18 | 12 |
| 2.... | 11 | 12 | .... | .... | .... | .... | 26 | 312 | 110 | 22 | 17 | 12 |
| 3.... | 11 | 13 | .... | .... | .... | .... | 32 | 279 | 95 | 25 | 16 | 11 |
| 4.... | 11 | 14 | .... | .... | .... | .... | 41 | 299 | 89 | 24 | 16 | 10 |
| 5.... | 11 | 13 | .... | .... | .... | .... | 54 | 399 | 84 | 22 | 17 | 14 |
| 6.... | 12 | 14 | .... | .... | .... | .... | 67 | 331 | 74 | 22 | 21 | 32 |
| 7.... | 14 | 11 | .... | .... | .... | .... | 65 | 290 | 64 | 22 | 24 | 28 |
| 8.... | 15 | 12 | .... | .... | .... | .... | 71 | 312 | 55 | 22 | 18 | 20 |
| 9.... | 15 | 13 | .... | .... | .... | .... | 86 | 331 | 50 | 24 | 16 | 15 |
| 10.... | 14 | 12 | .... | .... | .... | .... | 74 | 368 | 44 | 24 | 16 | 14 |
| 11.... | 15 | 11 | .... | .... | .... | .... | 60 | 334 | 43 | 24 | 17 | 19 |
| 12.... | 17 | 12 | .... | .... | .... | .... | 59 | 279 | 40 | 22 | 16 | 24 |
| 13.... | 22 | 10 | .... | .... | .... | .... | 71 | 246 | 39 | 22 | 12 | 18 |
| 14.... | 21 | 11 | .... | .... | .... | .... | 67 | 259 | 34 | 22 | 14 | 18 |
| 15.... | 23 | 12 | .... | .... | .... | .... | 60 | 264 | 30 | 21 | 14 | 14 |
| 16.... | 22 | 12 | .... | .... | .... | .... | 59 | 239 | 27 | 20 | 13 | 12 |
| 17.... | 20 | 11 | .... | .... | .... | .... | 56 | 202 | 29 | 21 | 14 | 11 |
| 18.... | 17 | 11 | .... | .... | .... | .... | 59 | 210 | 29 | 22 | 13 | 10 |
| 19.... | 17 | 11 | .... | .... | .... | .... | 73 | 257 | 29 | 20 | 14 | 9.5 |
| 20.... | 16 | 10 | .... | .... | .... | .... | 85 | 244 | 28 | 19 | 13 | 9.2 |
| 21.... | 16 | 11 | .... | .... | .... | .... | 117 | 214 | 28 | 18 | 12 | 8.5 |
| 22.... | 16 | 11 | .... | .... | .... | .... | 154 | 194 | 27 | 16 | 12 | 8.3 |
| 23.... | 14 | 11 | .... | .... | .... | .... | 182 | 174 | 26 | 16 | 11 | 7.6 |
| 24.... | 14 | 9 | .... | .... | .... | .... | 160 | 150 | 25 | 15 | 12 | 7.0 |
| 25.... | 13 | 10 | .... | .... | .... | .... | 135 | 126 | 24 | 16 | 14 | 7.8 |
| 26.... | 12 | 9 | .... | .... | .... | .... | 115 | 115 | 23 | 16 | 13 | 8.0 |
| 27.... | 12 | 10 | .... | .... | .... | .... | 119 | 110 | 23 | 15 | 12 | 8.3 |
| 28.... | 12 | 10 | .... | .... | .... | .... | 242 | 103 | 22 | 18 | 12 | 8.5 |
| 29.... | 12 | 10 | .... | .... | .... | .... | 275 | 106 | 22 | 16 | 16 | 11 |
| 30.... | 12 | 11 | .... | .... | .... | .... | 292 | 124 | 22 | 17 | 15 | 8.5 |
| 31.... | 12 | .... | .... | .... | .... | 22 | .... | 130 | .... | 17 | 12 | .... |
| Total | 460 | 339 | .... | .... | .... | .... | 2979 | 7302 | 1370 | 622 | 460 | 396.2 |
| Mean. | 14.8 | 11.3 | .... | .... | .... | .... | 99.3 | 236 | 45.7 | 20.1 | 14.8 | 13.2 |
| Max.. | 23 | 14 | .... | .... | .... | .... | 292 | 399 | 135 | 25 | 24 | 32 |
| Min.. | 11 | 9 | .... | .... | .... | .... | 23 | 103 | 22 | 15 | 11 | 7.0 |
| Acre-ft. | 912 | 672 | .... | .... | .... | .... | 5910 | 14480 | 2720 | 1230 | 912 | 786 |

Total run-off for period=27,622 acre-feet.

Discharge of Leroux Creek Near Cedaredge, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|------|------|------|-------|------|-------|------|------|------|-------|
| 1.... | 7.4 | 9.2 | .... | .... | .... | 4.2 | 13 | 84 | 108 | 31 | 15 | 12 |
| 2.... | 6.8 | 9.2 | .... | .... | .... | 4.1 | 11 | 114 | 79 | 27 | 19 | 10 |
| 3.... | 6.4 | 9.7 | .... | .... | .... | 3.9 | 12 | 164 | 72 | 25 | 20 | 9.7 |
| 4.... | 6.6 | 8.5 | .... | .... | .... | 3.8 | 11 | 269 | 66 | 23 | 20 | 10 |
| 5.... | 6.8 | 8.0 | .... | .... | .... | 4.0 | 14 | 323 | 62 | 21 | 19 | 10 |
| 6.... | 8.0 | 8.3 | .... | .... | .... | 4.4 | 16 | 386 | 59 | 21 | 21 | 9.5 |
| 7.... | 7.0 | 7.0 | .... | .... | .... | 4.0 | 16 | 377 | 54 | 21 | 20 | 9.2 |
| 8.... | 7.2 | 6.6 | .... | .... | .... | 4.1 | 15 | 346 | 50 | 20 | 18 | 9.2 |
| 9.... | 7.6 | 7.6 | .... | .... | .... | 4.4 | 13 | 464 | 44 | 23 | 16 | 8.5 |
| 10.... | 6.6 | 5.0 | .... | .... | .... | 4.6 | 12 | 521 | 38 | 23 | 19 | 6.8 |
| 11.... | 8.5 | 8.0 | .... | .... | .... | 4.6 | 11 | 437 | 34 | 23 | 19 | 6.0 |
| 12.... | 8.0 | 8.5 | .... | .... | .... | 4.2 | 13 | 409 | 32 | 24 | 14 | 5.6 |
| 13.... | 7.6 | 7.2 | .... | .... | .... | 3.6 | 19 | 484 | 30 | 23 | 15 | 8.8 |
| 14.... | 7.0 | 6.8 | .... | .... | .... | 4.0 | 36 | 460 | 28 | 22 | 15 | 9.0 |
| 15.... | 6.2 | 6.8 | .... | .... | .... | 4.7 | 46 | 419 | 27 | 21 | 18 | 8.0 |
| 16.... | 7.0 | 6.4 | .... | .... | .... | 5.4 | 38 | 416 | 28 | 20 | 18 | 7.2 |
| 17.... | 7.0 | 6.2 | .... | .... | .... | 5.8 | 31 | 300 | 27 | 21 | 15 | 9.7 |
| 18.... | 6.8 | 5.5 | .... | .... | .... | 5.3 | 37 | 260 | 26 | 21 | 12 | 5.2 |
| 19.... | 7.0 | 5.2 | .... | .... | .... | 7.0 | 61 | 245 | 25 | 20 | 12 | 5.2 |
| 20.... | 6.6 | 7.4 | .... | .... | .... | 8.6 | 93 | 212 | 27 | 19 | 13 | 34 |
| 21.... | 6.2 | 7.8 | .... | .... | .... | 11 | 123 | 190 | 31 | 17 | 13 | 27 |
| 22.... | 5.6 | 7.0 | .... | .... | .... | 12 | 144 | 172 | 30 | 16 | 16 | 32 |
| 23.... | 5.5 | 6.4 | .... | .... | .... | 14 | 170 | 172 | 30 | 17 | 18 | 30 |
| 24.... | 6.0 | 6.6 | .... | .... | .... | 16 | 168 | 164 | 26 | 17 | 18 | 30 |
| 25.... | 7.0 | 6.4 | .... | .... | .... | 19 | 144 | 160 | 27 | 17 | 20 | 21 |
| 26.... | 7.0 | 6.4 | .... | .... | .... | 20 | 166 | 156 | 27 | 17 | 24 | 21 |
| 27.... | 7.6 | 6.2 | .... | .... | .... | 19 | 179 | 140 | 30 | 16 | 24 | 19 |
| 28.... | 7.0 | 7.2 | .... | .... | .... | 16 | 136 | 124 | 29 | 21 | 17 | 17 |
| 29.... | 8.0 | 8.4 | .... | .... | .... | 13 | 96 | 117 | 29 | 17 | 13 | 36 |
| 30.... | 6.0 | 7.5 | .... | .... | .... | 12 | 80 | 112 | 32 | 16 | 11 | 49 |
| 31.... | 7.8 | .... | .... | .... | .... | 13 | .... | 102 | .... | 13 | 12 | .... |
| Total | 215.8 | 217.0 | .... | .... | .... | 259.7 | 1924 | 8299 | 1207 | 633 | 524 | 569.2 |
| Mean. | 6.96 | 7.23 | .... | .... | .... | 8.38 | 64.1 | 268 | 40.2 | 20.4 | 16.9 | 19.0 |
| Max.. | 8.5 | 9.7 | .... | .... | .... | 20 | 179 | 521 | 108 | 31 | 24 | 52 |
| Min.. | 5.5 | 5.0 | .... | .... | .... | 3.6 | 11 | 84 | 25 | 13 | 11 | 5.6 |
| Acre-ft. | 428 | 430 | .... | .... | .... | 515 | 3820 | 16460 | 2390 | 1260 | 1040 | 1130 |

Total run-off for period=27,470 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Surface Creek Above Cedaredge, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|--------------|------|------|------|------|------|------|------|-----|---------|------|------|-------|
| 1..... | | | | | | | | | | 60 | 30 | 10 |
| 2..... | | | | | | | | | | 44 | 31 | 11 |
| 3..... | | | | | | | | | | 44 | 31 | 10 |
| 4..... | | | | | | | | | | 32 | 45 | 9.0 |
| 5..... | | | | | | | | | | 31 | 48 | 14 |
| 6..... | | | | | | | | | | 63 | 27 | 29 |
| 7..... | | | | | | | | | | 65 | 26 | 28 |
| 8..... | | | | | | | | | | 67 | 24 | 24 |
| 9..... | | | | | | | | | | 65 | 24 | 21 |
| 10..... | | | | | | | | | | 63 | 27 | 14 |
| 11..... | | | | | | | | | | 69 | 26 | 18 |
| 12..... | | | | | | | | | | 69 | 38 | 19 |
| 13..... | | | | | | | | | | 58 | 42 | 14 |
| 14..... | | | | | | | | | | 51 | 25 | 22 |
| 15..... | | | | | | | | | | 45 | 18 | 12 |
| 16..... | | | | | | | | | | 43 | 19 | 14 |
| 17..... | | | | | | | | | | 45 | 20 | 11 |
| 18..... | | | | | | | | | June 20 | 44 | 28 | 9.4 |
| 19..... | | | | | | | | | to 30 | 44 | 29 | 9.8 |
| 20..... | | | | | | | | | 34 | 60 | 29 | 9.0 |
| 21..... | | | | | | | | | 49 | 62 | 30 | 9.4 |
| 22..... | | | | | | | | | 39 | 53 | 28 | 9.8 |
| 23..... | | | | | | | | | 41 | 51 | 28 | 5.8 |
| 24..... | | | | | | | | | 58 | 38 | 29 | 8.2 |
| 25..... | | | | | | | | | 56 | 36 | 28 | 1.0 |
| 26..... | | | | | | | | | 50 | 39 | 22 | 9.4 |
| 27..... | | | | | | | | | 49 | 45 | 22 | 7.8 |
| 28..... | | | | | | | | | 56 | 41 | 21 | 10 |
| 29..... | | | | | | | | | 56 | 38 | 24 | 10 |
| 30..... | | | | | | | | | 59 | 35 | 14 | 12 |
| 31..... | | | | | | | | | | 32 | 11 | .... |
| Total..... | | | | | | | | | 550 | 1532 | 844 | 400.6 |
| Mean..... | | | | | | | | | 50.0 | 49.4 | 27.2 | 13.4 |
| Max..... | | | | | | | | | 59 | 69 | 48 | 29 |
| Min..... | | | | | | | | | 34 | 31 | 11 | 5.8 |
| Acre-ft..... | | | | | | | | | 1090 | 3040 | 1670 | 795 |

Total run-off for period=6,595 acre-feet.

Discharge of Surface Creek Above Cedaredge, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|--------------|-------|------|------|------|------|------|--------|------|------|------|-------|-------|
| 1..... | 14 | | | | | | 7.0 | 54 | 88 | 59 | 28 | 34 |
| 2..... | 14 | | | | | | 6.5 | 75 | 98 | 56 | 37 | 33 |
| 3..... | 17 | | | | | | 6.5 | 109 | 96 | 54 | 37 | 21 |
| 4..... | 17 | | | | | | 7.0 | 169 | 102 | 57 | 23 | 21 |
| 5..... | 15 | | | | | | 8.2 | 185 | 106 | 57 | 21 | 18 |
| 6..... | 16 | | | | | | 9.5 | 196 | 100 | 60 | 38 | 20 |
| 7..... | 14 | | | | | | 13 | 164 | 96 | 61 | 42 | 18 |
| 8..... | 14 | | | | | | 11 | 159 | 98 | 60 | 36 | 23 |
| 9..... | 13 | | | | | | 8.2 | 185 | 96 | 59 | 34 | 23 |
| 10..... | 12 | | | | | | 7.0 | 188 | 67 | 62 | 24 | 19 |
| 11..... | 11 | | | | | | 6.5 | 174 | 62 | 63 | 21 | 17 |
| 12..... | 11 | | | | | | 9.4 | 164 | 69 | 52 | 27 | 17 |
| 13..... | 12 | | | | | | 12 | 174 | 68 | 56 | 28 | 22 |
| 14..... | 10 | | | | | | 24 | 164 | 65 | 51 | 41 | 20 |
| 15..... | 9.8 | | | | | | 34 | 145 | 61 | 52 | 45 | 18 |
| 16..... | 8.6 | | | | | | 29 | 136 | 56 | 59 | 52 | 16 |
| 17..... | 7.4 | | | | | | 23 | 116 | 55 | 59 | 48 | 22 |
| 18..... | 8.5 | | | | | | 27 | 113 | 66 | 56 | 39 | 59 |
| 19..... | 11 | | | | | | 46 | 98 | 59 | 55 | 35 | 43 |
| 20..... | 9.0 | | | | | | 71 | 96 | 53 | 42 | 31 | 24 |
| 21..... | 7.6 | | | | | | 103 | 113 | 52 | 37 | 23 | 20 |
| 22..... | 9.0 | | | | | | 116 | 109 | 59 | 43 | 23 | 28 |
| 23..... | 10 | | | | | | 116 | 109 | 54 | 42 | 23 | 35 |
| 24..... | 13 | | | | | | 125 | 111 | 60 | 34 | 27 | 33 |
| 25..... | 13 | | | | | | 111 | 109 | 60 | 34 | 29 | 28 |
| 26..... | 14 | | | | | | 131 | 119 | 82 | 34 | 34 | 22 |
| 27..... | 15 | | | | | | 111 | 119 | 85 | 38 | 29 | 20 |
| 28..... | 13 | | | | | | 69 | 116 | 74 | 40 | 16 | 20 |
| 29..... | 13 | | | | | | 51 | 108 | 75 | 34 | 9.6 | 42 |
| 30..... | 11 | | | | | | 49 | 106 | 62 | 42 | 23 | 47 |
| 31..... | 8.5 | | | | | | | 98 | | 43 | 32 | .... |
| Total..... | 371.4 | | | | | | 1347.8 | 4081 | 2224 | 1551 | 957.6 | 783 |
| Mean..... | 12.0 | | | | | | 44.9 | 132 | 74.1 | 50.0 | 30.9 | 26.1 |
| Max..... | 17 | | | | | | 131 | 196 | 106 | 63 | 52 | 59 |
| Min..... | 7.4 | | | | | | 6.5 | 54 | 52 | 34 | 9.6 | 16 |
| Acre-ft..... | 737 | | | | | | 2670 | 8090 | 4410 | 3080 | 1900 | 1550 |

Total run-off for period=22,440 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Surface Creek at Cedaredge, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|
| 1..... | 6.9 | 14 | ..... | ..... | ..... | ..... | 10 | 88 | 71 | 19 | 15 | 7.5 |
| 2..... | 8.2 | 13 | ..... | ..... | ..... | ..... | 13 | 77 | 60 | 18 | 14 | 6.9 |
| 3..... | 8.2 | 12 | ..... | ..... | ..... | ..... | 17 | 82 | 51 | 18 | 13 | 6.2 |
| 4..... | 9.4 | 12 | ..... | ..... | ..... | ..... | 19 | 88 | 51 | 15 | 13 | 3.4 |
| 5..... | 10 | 12 | ..... | ..... | ..... | ..... | 24 | 82 | 51 | 13 | 11 | 3.4 |
| 6..... | 11 | 12 | ..... | ..... | ..... | ..... | 23 | 77 | 51 | 24 | 12 | 1.6 |
| 7..... | 13 | 7.0 | ..... | ..... | ..... | ..... | 11 | 71 | 47 | 23 | 14 | 1.7 |
| 8..... | 14 | 5.5 | ..... | ..... | ..... | ..... | 9.4 | 67 | 44 | 26 | 13 | 1.2 |
| 9..... | 10 | 5.9 | ..... | ..... | ..... | ..... | 15 | 66 | 43 | 25 | 11 | 1.1 |
| 10..... | 11 | 8.2 | ..... | ..... | ..... | ..... | 15 | 72 | 38 | 24 | 11 | 6.9 |
| 11..... | 14 | 4.7 | ..... | ..... | ..... | ..... | 11 | 67 | 33 | 29 | 8.8 | 1.2 |
| 12..... | 14 | 5.0 | ..... | ..... | ..... | ..... | 12 | 59 | 33 | 29 | 10 | 1.2 |
| 13..... | 17 | 4.5 | ..... | ..... | ..... | ..... | 17 | 53 | 29 | 27 | 8.8 | 9.4 |
| 14..... | 11 | 4.6 | ..... | ..... | ..... | *4.8 | 16 | 60 | 25 | 22 | 11 | 1.1 |
| 15..... | 8.8 | 4.8 | ..... | ..... | ..... | ..... | 9.4 | 74 | 22 | 18 | 8.8 | 6.2 |
| 16..... | 9.4 | 4.8 | ..... | ..... | ..... | ..... | 6.9 | 81 | 24 | 18 | 8.2 | 8.2 |
| 17..... | 10 | 4.2 | ..... | ..... | *3.1 | ..... | 4.7 | 74 | 22 | 20 | 7.5 | 7.5 |
| 18..... | 11 | 4.2 | ..... | ..... | ..... | ..... | 8.2 | 74 | 18 | 23 | 11 | 5.2 |
| 19..... | 10 | 4.2 | ..... | ..... | ..... | ..... | 25 | 74 | 16 | 22 | 11 | 5.2 |
| 20..... | 8.2 | 4.0 | ..... | ..... | ..... | ..... | 33 | 91 | 16 | 28 | 14 | 4.7 |
| 21..... | 8.2 | 4.3 | ..... | *4.5 | ..... | ..... | 51 | 89 | 26 | 29 | 17 | 4.2 |
| 22..... | 7.5 | 4.3 | ..... | ..... | ..... | ..... | 74 | 91 | 25 | 21 | 13 | 4.2 |
| 23..... | 7.5 | 4.3 | ..... | ..... | ..... | ..... | 66 | 84 | 28 | 19 | 8.2 | 3.8 |
| 24..... | 7.5 | 3.8 | ..... | ..... | ..... | ..... | 35 | 79 | 33 | 15 | 11 | 0.7 |
| 25..... | 6.4 | 4.0 | ..... | ..... | ..... | ..... | 26 | 69 | 24 | 16 | 14 | 0 |
| 26..... | 6.0 | 3.6 | ..... | ..... | ..... | ..... | 38 | 64 | 19 | 20 | 11 | 2.7 |
| 27..... | 6.0 | 4.0 | ..... | ..... | ..... | ..... | 57 | 66 | 18 | 26 | 10 | 4.7 |
| 28..... | 8.0 | 4.0 | ..... | ..... | ..... | ..... | 77 | 64 | 24 | 26 | 7.5 | 5.6 |
| 29..... | 11 | 4.0 | ..... | ..... | ..... | ..... | 72 | 71 | 24 | 25 | 11 | 8.2 |
| 30..... | 11 | 4.2 | ..... | ..... | ..... | ..... | 77 | 69 | 20 | 22 | 8.2 | 8.2 |
| 31..... | 12 | ..... | ..... | ..... | ..... | ..... | ..... | 69 | ..... | 17 | 8.2 | ..... |
| Total | 306.2 | 187.1 | 139.5 | 124 | 98 | 186 | 872.6 | 2292 | 986 | 677 | 345.2 | 213 |
| Mean. | 9.88 | 6.24 | 4.5 | 4.0 | 3.5 | 6.0 | 29.1 | 73.9 | 32.9 | 21.8 | 11.1 | 7.10 |
| Max... | 17 | 14 | ..... | ..... | ..... | ..... | 77 | 91 | 71 | 29 | 17 | 17 |
| Min... | 6.0 | 3.6 | ..... | ..... | ..... | ..... | 4.7 | 53 | 16 | 13 | 7.5 | 0 |
| Acre-ft. | 607 | 371 | 277 | 246 | 194 | 369 | 1730 | 4550 | 1960 | 1340 | 685 | 422 |

Total run-off for water year 1938-39=12,750 acre-feet.

*Discharge measurement.

Discharge of Surface Creek at Cedaredge, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|------|-------|-------|-------|--------|------|-------|-------|-------|-------|
| 1..... | 9.0 | 5.1 | 1.1 | ..... | ..... | 0.9 | 7.2 | 72 | 54 | 25 | 10 | 13 |
| 2..... | 9.0 | 5.5 | 1.1 | ..... | ..... | .9 | 6.6 | 86 | 61 | 21 | 11 | 15 |
| 3..... | 8.4 | 5.5 | 1.1 | ..... | ..... | .8 | 6.6 | 91 | 59 | 20 | 9.0 | 12 |
| 4..... | 6.6 | 5.5 | 1.1 | ..... | ..... | .9 | 7.2 | 118 | 57 | 18 | 9.0 | 10 |
| 5..... | 4.6 | 4.6 | 1.1 | ..... | ..... | 1.0 | 8.4 | 118 | 61 | 16 | 9.6 | 9.6 |
| 6..... | 4.2 | 4.2 | 1.1 | ..... | 0.2 | .8 | 9.6 | 115 | 54 | 21 | 11 | 5.5 |
| 7..... | 3.7 | 2.3 | 1.0 | ..... | ..... | 1.0 | 13 | 105 | 48 | 25 | 9.0 | 3.2 |
| 8..... | 4.6 | 2.3 | 1.0 | ..... | ..... | 1.0 | 11 | 95 | 46 | 28 | 11 | 10 |
| 9..... | 6.0 | 2.3 | .8 | 0.5 | ..... | .8 | 8.4 | 115 | 46 | 27 | 12 | 11 |
| 10..... | 6.6 | 2.3 | .8 | ..... | ..... | .8 | 7.2 | 102 | 38 | 21 | 10 | 11 |
| 11..... | 7.8 | 2.8 | .7 | ..... | ..... | .8 | 6.0 | 89 | 36 | 18 | 9.0 | 10 |
| 12..... | 7.8 | 2.8 | .8 | ..... | ..... | .8 | 7.2 | 77 | 35 | 19 | 9.6 | 7.8 |
| 13..... | 7.8 | 3.2 | 1.1 | ..... | ..... | 1.4 | 11 | 86 | 30 | 24 | 9.6 | 10 |
| 14..... | 7.2 | 3.7 | 2.3 | ..... | ..... | 1.3 | 25 | 77 | 29 | 25 | 8.4 | 6.0 |
| 15..... | 5.1 | 4.2 | 1.4 | ..... | ..... | 1.1 | 36 | 54 | 28 | 25 | 7.8 | 2.8 |
| 16..... | 4.6 | 3.2 | 1.4 | ..... | ..... | .8 | 28 | 57 | 23 | 28 | 15 | 1.9 |
| 17..... | 3.7 | 1.9 | 1.3 | ..... | ..... | .7 | 27 | 53 | 20 | 29 | 14 | 8.4 |
| 18..... | 5.1 | 3.2 | 1.1 | ..... | ..... | .7 | 22 | 56 | 23 | 24 | 9.6 | 3.7 |
| 19..... | 6.6 | 3.7 | 1.0 | ..... | ..... | .8 | 51 | 57 | 18 | 21 | 9.0 | 2.3 |
| 20..... | 5.1 | 4.2 | .9 | ..... | ..... | 1.4 | 81 | 56 | 18 | 10 | 11 | 15 |
| 21..... | 3.2 | 3.7 | .8 | ..... | ..... | 2.3 | 105 | 69 | 21 | 5.5 | 7.8 | 14 |
| 22..... | 5.5 | 3.2 | .8 | ..... | ..... | 4.6 | 112 | 67 | 23 | 10 | 6.6 | 16 |
| 23..... | 7.2 | 1.9 | .7 | ..... | ..... | 7.2 | 102 | 64 | 21 | 9.6 | 6.6 | 17 |
| 24..... | 8.4 | 1.9 | .7 | ..... | ..... | 9.6 | 112 | 62 | 17 | 6.0 | 12 | 21 |
| 25..... | 7.8 | 2.3 | .8 | ..... | ..... | 16 | 91 | 59 | 16 | 9.0 | 16 | 18 |
| 26..... | 9.0 | 1.9 | .7 | ..... | ..... | 15 | 128 | 67 | 30 | 10 | 17 | 16 |
| 27..... | 8.4 | 1.4 | .6 | ..... | ..... | 11 | 100 | 69 | 34 | 12 | 16 | 13 |
| 28..... | 6.6 | 1.1 | .4 | ..... | ..... | 9.0 | 79 | 65 | 28 | 20 | 10 | 13 |
| 29..... | 7.2 | 1.0 | .3 | ..... | ..... | 7.8 | 65 | 64 | 30 | 16 | 4.2 | 2.7 |
| 30..... | 6.0 | 1.0 | .2 | ..... | ..... | 5.1 | 64 | 62 | 26 | 12 | 3.2 | 3.7 |
| 31..... | 4.6 | ..... | .3 | ..... | ..... | 5.5 | ..... | 59 | ..... | 11 | 6.6 | ..... |
| Total | 197.4 | 91.9 | 28.5 | 12.4 | 10.2 | 111.8 | 1337.4 | 2386 | 1030 | 566.1 | 310.6 | 414.2 |
| Mean. | 6.37 | 3.06 | .92 | .40 | .35 | 3.61 | 44.6 | 77.0 | 34.3 | 18.3 | 10.0 | 13.8 |
| Max... | 9.0 | 5.5 | 2.3 | ..... | ..... | 16 | 128 | 118 | 61 | 29 | 17 | 3.7 |
| Min... | 3.2 | 1.0 | .2 | ..... | ..... | .7 | 6.0 | 53 | 16 | 5.5 | 3.2 | 1.9 |
| Acre-ft. | 392 | 182 | 57 | 25 | 20 | 222 | 2650 | 4730 | 2040 | 1120 | 616 | 822 |

Total run-off for water year 1939-40=12,880 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Uncompahgre River at Colona, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|------|------|------|-------|-------|-------|-------|-------|------|-------|
| 1.... | 118 | 144 | 118 | 82 | 79 | 77 | 218 | 560 | 704 | 311 | 131 | 50 |
| 2.... | 116 | 158 | 111 | 84 | 72 | 70 | 257 | 644 | 626 | 302 | 124 | 58 |
| 3.... | 116 | 149 | 111 | 86 | 74 | 77 | 299 | 604 | 752 | 308 | 118 | 58 |
| 4.... | 113 | 168 | 122 | 90 | 76 | 72 | 296 | 587 | 890 | 306 | 105 | 68 |
| 5.... | 111 | 177 | 113 | 85 | 78 | 65 | 293 | 668 | 938 | 302 | 97 | 83 |
| 6.... | 139 | 155 | 113 | 95 | 76 | 67 | 320 | 674 | 800 | 288 | 124 | 108 |
| 7.... | 180 | 139 | 105 | 85 | 78 | 87 | 260 | 488 | 728 | 270 | 315 | 115 |
| 8.... | 332 | 144 | 107 | 86 | 80 | 72 | 284 | 425 | 692 | 254 | 198 | 154 |
| 9.... | 236 | 163 | 107 | 80 | 82 | 76 | 354 | 492 | 746 | 250 | 162 | 154 |
| 10.... | 209 | 155 | 109 | 77 | 75 | 81 | 326 | 582 | 794 | 242 | 140 | 150 |
| 11.... | 203 | 152 | 107 | 73 | 76 | 88 | 254 | 609 | 806 | 206 | 128 | 222 |
| 12.... | 188 | 144 | 107 | 72 | 78 | 88 | 269 | 525 | 782 | 198 | 113 | 226 |
| 13.... | 188 | 122 | 98 | 75 | 76 | 116 | 314 | 438 | 884 | 198 | 102 | 214 |
| 14.... | 191 | 134 | 83 | 72 | 74 | 132 | 323 | 393 | 872 | 182 | 100 | 190 |
| 15.... | 218 | 127 | 88 | 68 | 76 | 116 | 266 | 448 | 782 | 166 | 90 | 166 |
| 16.... | 239 | 130 | 89 | 68 | 78 | 155 | 230 | 466 | 686 | 162 | 85 | 147 |
| 17.... | 218 | 130 | 78 | 75 | 60 | 218 | 200 | 405 | 620 | 147 | 74 | 134 |
| 18.... | 194 | 127 | 70 | 94 | 59 | 251 | 194 | 409 | 530 | 137 | 70 | 124 |
| 19.... | 183 | 120 | 94 | 77 | 70 | 302 | 218 | 582 | 438 | 128 | 70 | 118 |
| 20.... | 168 | 127 | 96 | 77 | 68 | 335 | 224 | 740 | 364 | 118 | 68 | 115 |
| 21.... | 160 | 127 | 98 | 72 | 56 | 332 | 302 | 800 | 360 | 108 | 66 | 102 |
| 22.... | 158 | 125 | 96 | 74 | 60 | 320 | 393 | 830 | 357 | 95 | 66 | 97 |
| 23.... | 152 | 107 | 94 | 77 | 66 | 344 | 434 | 776 | 368 | 83 | 64 | 95 |
| 24.... | 149 | 94 | 77 | 72 | 72 | 320 | 393 | 656 | 378 | 81 | 62 | 83 |
| 25.... | 152 | 109 | 74 | 69 | 76 | 287 | 338 | 502 | 357 | 81 | 60 | 81 |
| 26.... | 149 | 113 | 78 | 77 | 76 | 266 | 413 | 438 | 344 | 81 | 58 | 81 |
| 27.... | 147 | 120 | 78 | 85 | 76 | 248 | 368 | 474 | 344 | 81 | 58 | 85 |
| 28.... | 142 | 120 | 76 | 87 | 72 | 203 | 479 | 582 | 329 | 102 | 60 | 81 |
| 29.... | 139 | 120 | 77 | 78 | .... | 206 | 545 | 650 | 326 | 147 | 58 | 92 |
| 30.... | 142 | 120 | 78 | 80 | .... | 177 | 545 | 704 | 317 | 144 | 66 | 88 |
| 31.... | 139 | .... | 80 | 76 | .... | 183 | .... | 686 | .... | 166 | 62 | .... |
| Total | 5289 | 4020 | 2932 | 2448 | 2039 | 5431 | 9609 | 17837 | 17914 | 5644 | 3094 | 3539 |
| Mean.. | 171 | 134 | 94.6 | 79.0 | 72.8 | 175 | 320 | 575 | 597 | 182 | 99.8 | 118 |
| Max... | 332 | 177 | 122 | 94 | 82 | 344 | 545 | 830 | 938 | 311 | 315 | 226 |
| Min... | 111 | 94 | 70 | 68 | 56 | 65 | 194 | 393 | 317 | 81 | 58 | 50 |
| Acre-ft. | 10490 | 7970 | 5820 | 4860 | 4040 | 10770 | 19060 | 35380 | 35530 | 11190 | 6140 | 7020 |

Total run-off for water year 1938-39=158,300 acre-feet.

Discharge of Uncompahgre River at Colona, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|-------|-------|------|-------|
| 1.... | 83 | 72 | 77 | 77 | 92 | 100 | 190 | 302 | 1350 | 376 | 68 | 80 |
| 2.... | 83 | 70 | 81 | 74 | 78 | 86 | 155 | 341 | 1340 | 318 | 66 | 72 |
| 3.... | 79 | 64 | 81 | 77 | 72 | 86 | 142 | 470 | 1200 | 302 | 66 | 82 |
| 4.... | 70 | 64 | 81 | 77 | 72 | 82 | 138 | 641 | 1060 | 275 | 64 | 80 |
| 5.... | 66 | 64 | 81 | 77 | 72 | 82 | 146 | 614 | 1000 | 270 | 62 | 78 |
| 6.... | 68 | 64 | 81 | 77 | 75 | 86 | 170 | 578 | 856 | 240 | 64 | 72 |
| 7.... | 62 | 64 | 81 | 74 | 78 | 78 | 155 | 632 | 811 | 219 | 62 | 78 |
| 8.... | 68 | 62 | 77 | 74 | 78 | 86 | 146 | 596 | 829 | 207 | 57 | 74 |
| 9.... | 74 | 68 | 77 | 74 | 82 | 96 | 142 | 740 | 748 | 207 | 54 | 68 |
| 10.... | 66 | 77 | 77 | 72 | 70 | 118 | 146 | 856 | 690 | 195 | 54 | 64 |
| 11.... | 70 | 81 | 77 | 72 | 75 | 118 | 134 | 820 | 766 | 178 | 51 | 62 |
| 12.... | 68 | 88 | 77 | 74 | 78 | 96 | 134 | 856 | 811 | 156 | 50 | 62 |
| 13.... | 64 | 90 | 68 | 72 | 72 | 78 | 155 | 784 | 910 | 142 | 50 | 70 |
| 14.... | 60 | 85 | 72 | 58 | 62 | 72 | 260 | 856 | 1040 | 142 | 44 | 66 |
| 15.... | 58 | 81 | 72 | 47 | 66 | 78 | 302 | 883 | 980 | 136 | 40 | 62 |
| 16.... | 56 | 79 | 72 | 58 | 70 | 92 | 296 | 811 | 838 | 139 | 46 | 58 |
| 17.... | 56 | 77 | 72 | 60 | 65 | 126 | 248 | 856 | 865 | 132 | 51 | 76 |
| 18.... | 54 | 70 | 70 | 61 | 62 | 126 | 230 | 643 | 856 | 150 | 51 | 195 |
| 19.... | 58 | 71 | 66 | 60 | 65 | 138 | 348 | 508 | 802 | 132 | 57 | 203 |
| 20.... | 60 | 72 | 68 | 59 | 62 | 150 | 497 | 466 | 706 | 120 | 112 | 192 |
| 21.... | 62 | 74 | 72 | 60 | 66 | 180 | 632 | 472 | 636 | 118 | 86 | 174 |
| 22.... | 62 | 74 | 66 | 64 | 70 | 195 | 533 | 460 | 608 | 112 | 74 | 227 |
| 23.... | 66 | 81 | 62 | 62 | 70 | 224 | 524 | 508 | 562 | 102 | 74 | 235 |
| 24.... | 68 | 81 | 68 | 61 | 70 | 236 | 515 | 594 | 532 | 105 | 88 | 215 |
| 25.... | 68 | 79 | 74 | 82 | 70 | 266 | 497 | 722 | 478 | 100 | 125 | 192 |
| 26.... | 74 | 81 | 70 | 93 | 75 | 248 | 578 | 775 | 466 | 98 | 122 | 181 |
| 27.... | 72 | 81 | 52 | 90 | 78 | 236 | 551 | 820 | 418 | 96 | 118 | 164 |
| 28.... | 70 | 81 | 50 | 88 | 78 | 224 | 376 | 950 | 370 | 90 | 98 | 167 |
| 29.... | 74 | 79 | 58 | 86 | 92 | 175 | 302 | 1020 | 358 | 94 | 94 | 207 |
| 30.... | 72 | 79 | 64 | 84 | .... | 160 | 278 | 1120 | 382 | 82 | 88 | 290 |
| 31.... | 70 | .... | 72 | 88 | .... | 185 | .... | 1240 | .... | 74 | 88 | .... |
| Total | 2081 | 2256 | 2216 | 2232 | 2116 | 4303 | 8920 | 21924 | 23268 | 5107 | 2224 | 3846 |
| Mean.. | 67.1 | 75.2 | 71.5 | 72.0 | 73.0 | 139 | 297 | 708 | 776 | 165 | 71.7 | 128 |
| Max... | 83 | 90 | 81 | 93 | 92 | 266 | 632 | 1240 | 1350 | 376 | 125 | 290 |
| Min... | 54 | 62 | 50 | 47 | 62 | 72 | 134 | 302 | 358 | 74 | 40 | 58 |
| Acre-ft. | 4130 | 4470 | 4400 | 4430 | 4200 | 8530 | 17690 | 43510 | 46150 | 10130 | 4410 | 7630 |

Total run-off for water year 1939-40=159,700 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Uncompahgre River at Delta, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|------|------|------|-------|-------|-------|-------|------|------|-------|
| 1..... | 328 | 238 | 182 | 130 | 106 | 97 | 208 | 238 | 494 | 136 | 175 | 136 |
| 2..... | 316 | 308 | 156 | 133 | 99 | 95 | 257 | 265 | 397 | 156 | 147 | 139 |
| 3..... | 328 | 375 | 147 | 141 | 108 | 99 | 312 | 312 | 358 | 160 | 139 | 141 |
| 4..... | 312 | 366 | 153 | 133 | 117 | 104 | 451 | 227 | 490 | 156 | 139 | 141 |
| 5..... | 216 | 384 | 153 | 122 | 110 | 90 | 456 | 182 | 614 | 153 | 133 | 156 |
| 6..... | 300 | 397 | 153 | 144 | 108 | 87 | 466 | 257 | 447 | 144 | 125 | 205 |
| 7..... | 388 | 362 | 150 | 136 | 102 | 90 | 366 | 216 | 349 | 133 | 388 | 300 |
| 8..... | 842 | 345 | 147 | 139 | 104 | 108 | 276 | 122 | 345 | 125 | 358 | 300 |
| 9..... | 729 | 296 | 150 | 133 | 117 | 125 | 315 | 128 | 341 | 122 | 269 | 461 |
| 10..... | 609 | 257 | 153 | 133 | 110 | 153 | 384 | 205 | 358 | 122 | 235 | 456 |
| 11..... | 539 | 223 | 153 | 120 | 125 | 246 | 254 | 257 | 366 | 113 | 205 | 656 |
| 12..... | 509 | 198 | 156 | 120 | 120 | 219 | 172 | 238 | 284 | 102 | 160 | 392 |
| 13..... | 494 | 182 | 150 | 122 | 125 | 227 | 128 | 178 | 254 | 102 | 144 | 509 |
| 14..... | 475 | 166 | 128 | 117 | 136 | 358 | 141 | 166 | 284 | 104 | 139 | 392 |
| 15..... | 461 | 147 | 150 | 113 | 120 | 235 | 163 | 150 | 178 | 106 | 122 | 466 |
| 16..... | 433 | 208 | 156 | 113 | 110 | 261 | 104 | 175 | 160 | 120 | 113 | 456 |
| 17..... | 410 | 192 | 150 | 110 | 92 | 358 | 87 | 175 | 296 | 110 | 108 | 461 |
| 18..... | 442 | 169 | 139 | 117 | 108 | 392 | 92 | 160 | 257 | 104 | 104 | 379 |
| 19..... | 375 | 150 | 150 | 115 | 136 | 406 | 125 | 201 | 254 | 102 | 102 | 349 |
| 20..... | 424 | 153 | 153 | 115 | 133 | 475 | 166 | 384 | 242 | 99 | 104 | 337 |
| 21..... | 419 | 160 | 156 | 108 | 108 | 480 | 185 | 447 | 182 | 102 | 108 | 320 |
| 22..... | 379 | 160 | 160 | 110 | 117 | 456 | 223 | 461 | 166 | 106 | 108 | 273 |
| 23..... | 345 | 139 | 178 | 108 | 113 | 451 | 300 | 401 | 166 | 104 | 113 | 261 |
| 24..... | 316 | 113 | 128 | 106 | 108 | 466 | 388 | 288 | 169 | 104 | 110 | 216 |
| 25..... | 304 | 128 | 113 | 104 | 113 | 406 | 261 | 212 | 169 | 102 | 108 | 201 |
| 26..... | 312 | 128 | 122 | 106 | 110 | 442 | 133 | 156 | 172 | 104 | 104 | 227 |
| 27..... | 296 | 141 | 122 | 125 | 108 | 419 | 97 | 166 | 156 | 106 | 106 | 250 |
| 28..... | 227 | 160 | 136 | 128 | 95 | 308 | 120 | 231 | 136 | 110 | 115 | 269 |
| 29..... | 219 | 169 | 128 | 120 | .... | 276 | 216 | 328 | 141 | 153 | 122 | 300 |
| 30..... | 223 | 178 | 130 | 120 | .... | 227 | 250 | 375 | 136 | 153 | 120 | 312 |
| 31..... | 212 | .... | 130 | 113 | .... | 205 | .... | 461 | .... | 208 | 128 | .... |
| Total | 12182 | 6583 | 4532 | 3754 | 3158 | 8361 | 7126 | 7762 | 8361 | 3821 | 4651 | 9401 |
| Mean. | 393 | 219 | 146 | 121 | 113 | 270 | 238 | 250 | 279 | 123 | 150 | 313 |
| Max.. | 842 | 397 | 182 | 144 | 136 | 480 | 466 | 461 | 614 | 208 | 388 | 656 |
| Min.. | 212 | 113 | 113 | 104 | 92 | 87 | 87 | 122 | 136 | 99 | 102 | 136 |
| Acre-ft. | 24160 | 13060 | 8990 | 7450 | 6260 | 16580 | 14130 | 15400 | 16580 | 7580 | 9230 | 18650 |

Total run-off for water year 1938-39=158,070 acre-feet.

Discharge of Uncompahgre River at Delta, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|------|------|------|------|------|-------|-------|-------|------|-------|-------|
| 1.... | 326 | 244 | 144 | 132 | 129 | 129 | 106 | 193 | 750 | 240 | 150 | 218 |
| 2.... | 322 | 190 | 134 | 132 | 137 | 102 | 129 | 193 | 675 | 193 | 132 | 236 |
| 3.... | 310 | 173 | 134 | 150 | 137 | 96 | 163 | 240 | 595 | 153 | 120 | 229 |
| 4.... | 240 | 160 | 134 | 160 | 129 | 94 | 129 | 339 | 411 | 144 | 124 | 186 |
| 5.... | 453 | 140 | 150 | 173 | 127 | 94 | 115 | 443 | 322 | 132 | 127 | 160 |
| 6.... | 190 | 153 | 150 | 166 | 120 | 96 | 169 | 394 | 314 | 117 | 132 | 150 |
| 7.... | 268 | 156 | 147 | 156 | 124 | 96 | 200 | 385 | 268 | 132 | 137 | 160 |
| 8.... | 264 | 112 | 144 | 144 | 122 | 90 | 183 | 377 | 385 | 134 | 140 | 160 |
| 9.... | 297 | 120 | 147 | 147 | 115 | 90 | 147 | 356 | 416 | 127 | 127 | 160 |
| 10.... | 314 | 140 | 160 | 144 | 115 | 90 | 104 | 503 | 368 | 122 | 122 | 160 |
| 11.... | 318 | 134 | 150 | 137 | 112 | 94 | 84 | 494 | 347 | 117 | 122 | 156 |
| 12.... | 310 | 137 | 153 | 140 | 115 | 87 | 73 | 555 | 425 | 117 | 115 | 153 |
| 13.... | 301 | 140 | 150 | 132 | 96 | 76 | 65 | 585 | 347 | 120 | 110 | 173 |
| 14.... | 305 | 144 | 140 | 98 | 92 | 85 | 85 | 555 | 289 | 122 | 115 | 222 |
| 15.... | 301 | 144 | 140 | 94 | 102 | 85 | 183 | 555 | 650 | 124 | 110 | 297 |
| 16.... | 305 | 144 | 144 | 98 | 100 | 82 | 207 | 476 | 434 | 129 | 112 | 276 |
| 17.... | 301 | 150 | 153 | 104 | 96 | 88 | 144 | 615 | 335 | 153 | 108 | 256 |
| 18.... | 268 | 156 | 156 | 108 | 90 | 92 | 102 | 650 | 360 | 153 | 108 | 389 |
| 19.... | 248 | 153 | 129 | 102 | 96 | 104 | 115 | 411 | 318 | 150 | 127 | 512 |
| 20.... | 222 | 144 | 122 | 115 | 88 | 122 | 218 | 310 | 310 | 147 | 137 | 531 |
| 21.... | 244 | 160 | 140 | 132 | 94 | 94 | 448 | 430 | 310 | 153 | 115 | 535 |
| 22.... | 229 | 173 | 129 | 129 | 104 | 92 | 462 | 503 | 293 | 137 | 127 | 550 |
| 23.... | 229 | 169 | 129 | 120 | 104 | 94 | 347 | 476 | 260 | 150 | 204 | 560 |
| 24.... | 218 | 173 | 137 | 132 | 104 | 94 | 322 | 540 | 225 | 150 | 466 | 620 |
| 25.... | 214 | 166 | 156 | 153 | 108 | 100 | 272 | 600 | 211 | 150 | 476 | 580 |
| 26.... | 225 | 160 | 140 | 153 | 124 | 110 | 264 | 635 | 186 | 137 | 499 | 595 |
| 27.... | 248 | 160 | 124 | 147 | 137 | 79 | 301 | 580 | 180 | 127 | 535 | 555 |
| 28.... | 244 | 169 | 120 | 134 | 129 | 96 | 236 | 575 | 156 | 144 | 480 | 535 |
| 29.... | 268 | 190 | 117 | 127 | 134 | 77 | 180 | 522 | 144 | 180 | 343 | 570 |
| 30.... | 284 | 153 | 115 | 129 | .... | 80 | 232 | 540 | 207 | 163 | 268 | 996 |
| 31.... | 289 | .... | 137 | 132 | .... | 80 | .... | 665 | .... | 160 | 204 | .... |
| Total | 8555 | 4707 | 4325 | 4120 | 3280 | 2888 | 5785 | 14695 | 10491 | 4477 | 6192 | 10880 |
| Mean. | 276 | 157 | 140 | 133 | 113 | 93.2 | 193 | 474 | 350 | 144 | 200 | 363 |
| Max.. | 453 | 244 | 160 | 173 | 137 | 129 | 462 | 665 | 750 | 240 | 535 | 996 |
| Min.. | 190 | 112 | 115 | 94 | 88 | 76 | 65 | 193 | 144 | 117 | 108 | 150 |
| Ac.-ft. | 16970 | 9340 | 8580 | 8170 | 6510 | 5730 | 11470 | 29150 | 20810 | 8880 | 12280 | 21580 |

Total run-off for water year 1939-40=159,500 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Kannah Creek Near Whitewater, Colo., for Year Ending Sept. 30, 1939

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|------|------|------|-------|-------|------|------|-------|-------|-------|
| 1.... | 13 | 6.5 | 2.8 | 2.1 | 2.4 | 2.4 | 9.0 | 140 | 71 | 36 | 7.8 | 3.6 |
| 2.... | 11 | 6.5 | 2.2 | 2.1 | 2.4 | 2.6 | 9.0 | 180 | 54 | 34 | 6.6 | 2.8 |
| 3.... | 12 | 6.5 | 1.8 | 2.1 | 2.8 | 2.8 | 14 | 200 | 46 | 32 | 4.8 | 2.6 |
| 4.... | 13 | 6.5 | 2.0 | 2.1 | 3.0 | 2.8 | 14 | 229 | 42 | 34 | 4.8 | 2.8 |
| 5.... | 16 | 6.9 | 1.8 | 2.6 | 3.4 | 2.2 | 15 | 283 | 40 | 34 | 5.4 | 4.8 |
| 6.... | 13 | 4.2 | 1.6 | 2.8 | 3.2 | 1.8 | 14 | 301 | 36 | 36 | 5.4 | 8.4 |
| 7.... | 13 | 3.8 | 2.9 | 3.2 | 3.6 | 2.0 | 8.4 | 283 | 31 | 36 | 8.4 | 1.5 |
| 8.... | 17 | 4.6 | 4.2 | 3.4 | 3.8 | 2.3 | 11 | 283 | 29 | 34 | 6.0 | 1.1 |
| 9.... | 13 | 4.2 | 4.2 | 3.4 | 3.8 | 2.5 | 17 | 292 | 26 | 32 | 6.6 | 9.0 |
| 10.... | 11 | 6.5 | 4.4 | 3.2 | 3.6 | 2.7 | 14 | 296 | 28 | 29 | 7.2 | 7.8 |
| 11.... | 11 | 6.0 | 4.2 | 3.1 | 3.4 | 3.0 | 15 | 238 | 25 | 28 | 9.0 | 9.9 |
| 12.... | 11 | 6.0 | 3.8 | 3.0 | 3.2 | 2.8 | 12 | 212 | 22 | 28 | 1.6 | 9.9 |
| 13.... | 10 | 5.3 | 3.0 | 2.9 | 3.1 | 3.1 | 14 | 188 | 22 | 26 | 1.5 | 9.0 |
| 14.... | 9.1 | 4.8 | 2.6 | 2.9 | 3.1 | 2.9 | 13 | 204 | 21 | 22 | 1.7 | 9.9 |
| 15.... | 6.5 | 5.4 | 2.6 | 2.8 | 3.1 | 2.8 | 9.0 | 192 | 19 | 21 | 1.7 | 7.8 |
| 16.... | 6.0 | 5.6 | 2.8 | 2.8 | 3.2 | 3.4 | 7.8 | 156 | 18 | 18 | 1.6 | 7.2 |
| 17.... | 7.4 | 5.0 | 3.0 | 2.8 | 3.0 | 4.3 | 6.0 | 122 | 17 | 19 | 1.6 | 6.0 |
| 18.... | 6.0 | 4.4 | 3.6 | 2.8 | 2.6 | 5.3 | 7.2 | 148 | 16 | 26 | 1.6 | 4.8 |
| 19.... | 6.5 | 4.8 | 3.6 | 2.9 | 2.8 | 7.2 | 9.9 | 152 | 24 | 25 | 1.5 | 4.8 |
| 20.... | 6.9 | 5.0 | 3.8 | 2.9 | 2.4 | 8.4 | 12 | 133 | 18 | 28 | 1.1 | 4.8 |
| 21.... | 8.3 | 4.8 | 3.6 | 3.4 | 2.2 | 9.9 | 19 | 129 | 21 | 19 | 9.0 | 3.6 |
| 22.... | 9.1 | 4.4 | 3.2 | 3.6 | 2.2 | 11 | 26 | 111 | 19 | 18 | 9.9 | 3.0 |
| 23.... | 9.1 | 2.9 | 2.8 | 3.4 | 2.3 | 11 | 29 | 93 | 29 | 15 | 7.8 | 4.2 |
| 24.... | 8.3 | 1.4 | 2.2 | 3.0 | 2.6 | 11 | 24 | 82 | 34 | 15 | 4.8 | 3.0 |
| 25.... | 7.4 | 1.2 | 2.0 | 2.7 | 2.8 | 13 | 21 | 64 | 38 | 14 | 3.6 | 3.6 |
| 26.... | 7.4 | 1.2 | 1.9 | 2.8 | 2.8 | 12 | 25 | 59 | 38 | 12 | 2.8 | 3.0 |
| 27.... | 6.9 | 1.8 | 1.9 | 3.1 | 2.6 | 11 | 32 | 54 | 34 | 11 | 3.0 | 3.6 |
| 28.... | 6.9 | 2.2 | 2.0 | 3.2 | 2.4 | 8.4 | 48 | 50 | 36 | 8.4 | 6.0 | 2.8 |
| 29.... | 6.5 | 2.4 | 2.0 | 3.1 | .... | 7.8 | 7.8 | 41 | 48 | 34 | 8.4 | 1.1 |
| 30.... | 6.5 | 3.0 | 2.0 | 2.8 | .... | 7.2 | 104 | 48 | 38 | 8.4 | 7.8 | 3.0 |
| 31.... | 6.5 | .... | 2.1 | 2.6 | .... | 7.8 | .... | 52 | .... | 8.4 | 6.0 | .... |
| Total | 295.3 | 133.8 | 86.6 | 89.6 | 81.8 | 177.4 | 630.3 | 5022 | 920 | 715.6 | 282.7 | 175.3 |
| Mean | 9.53 | 4.46 | 2.79 | 2.89 | 2.92 | 5.72 | 21.0 | 162 | 30.7 | 23.1 | 9.12 | 5.84 |
| Max.. | 17 | 6.9 | 4.4 | 3.6 | 3.8 | 13 | 104 | 301 | 71 | 36 | 17 | 1.5 |
| Min.. | 6.0 | 1.2 | 1.6 | 2.1 | 2.2 | 1.8 | 6.0 | 48 | 16 | 8.4 | 2.8 | 2.6 |
| Acre-ft. | 586 | 265 | 172 | 178 | 162 | 352 | 1250 | 9960 | 1820 | 1420 | 561 | 348 |

Total run-off for water year 1938-39=17,070 acre-feet.

Discharge of Kannah Creek Near Whitewater, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|------|------|------|-------|-------|-------|------|-------|-------|-------|
| 1.... | 3.0 | 7.4 | 3.0 | 2.8 | 2.8 | 3.0 | 9.4 | 54 | 66 | 30 | 6.3 | 4.1 |
| 2.... | 2.5 | 7.4 | 2.6 | 3.0 | 2.8 | 2.8 | 6.8 | 57 | 59 | 30 | 6.3 | 3.0 |
| 3.... | 2.5 | 7.4 | 2.6 | 3.0 | 2.8 | 2.5 | 5.8 | 76 | 59 | 30 | 4.6 | 2.5 |
| 4.... | 3.0 | 6.3 | 2.5 | 3.2 | 2.8 | 2.8 | 5.8 | 111 | 54 | 26 | 4.1 | 3.6 |
| 5.... | 3.0 | 5.2 | 2.2 | 3.3 | 2.5 | 2.5 | 5.8 | 140 | 50 | 20 | 5.2 | 3.6 |
| 6.... | 3.6 | 5.2 | 2.3 | 3.2 | 2.3 | 2.5 | 5.2 | 188 | 45 | 20 | 13 | 4.1 |
| 7.... | 3.6 | 5.2 | 2.8 | 3.1 | 2.8 | 2.2 | 4.6 | 212 | 41 | 18 | 17 | 4.6 |
| 8.... | 5.2 | 5.2 | 2.8 | 2.9 | 2.6 | 2.5 | 8.5 | 244 | 37 | 20 | 16 | 2.0 |
| 9.... | 4.6 | 6.3 | 2.8 | 2.8 | 2.6 | 2.5 | 9.4 | 305 | 34 | 27 | 27 | 2.0 |
| 10.... | 4.1 | 5.2 | 2.5 | 2.7 | 2.8 | 2.8 | 4.6 | 341 | 30 | 27 | 26 | 1.8 |
| 11.... | 4.1 | 5.2 | 2.5 | 3.0 | 2.8 | 2.8 | 3.0 | 395 | 26 | 26 | 18 | 1.5 |
| 12.... | 4.1 | 4.6 | 2.5 | 2.8 | 2.8 | 2.2 | 3.6 | 458 | 25 | 22 | 14 | 1.2 |
| 13.... | 4.1 | 5.2 | 1.8 | 2.7 | 2.5 | 1.8 | 5.8 | 485 | 24 | 21 | 16 | 4.6 |
| 14.... | 4.1 | 5.2 | 2.5 | 2.3 | 2.8 | 1.7 | 14 | 503 | 22 | 18 | 14 | 5.2 |
| 15.... | 4.1 | 4.6 | 2.4 | 1.5 | 2.8 | 2.1 | 20 | 494 | 21 | 15 | 16 | 5.2 |
| 16.... | 4.1 | 4.3 | 2.8 | 1.9 | 2.8 | 2.8 | 15 | 494 | 20 | 21 | 18 | 4.1 |
| 17.... | 4.1 | 4.0 | 2.5 | 2.2 | 2.4 | 3.0 | 12 | 413 | 17 | 27 | 17 | 3.0 |
| 18.... | 4.1 | 3.5 | .8 | 2.4 | 2.2 | 3.0 | 15 | 359 | 16 | 22 | 14 | 5.8 |
| 19.... | 3.0 | 2.8 | .8 | 2.4 | 2.5 | 4.1 | 25 | 377 | 15 | 17 | 8.5 | 10 |
| 20.... | 3.0 | 3.2 | 1.8 | 2.5 | 2.5 | 5.2 | 37 | 350 | 15 | 15 | 7.4 | 10 |
| 21.... | 3.0 | 3.5 | 1.2 | 2.4 | 2.8 | 5.8 | 48 | 305 | 22 | 12 | 7.4 | 8.5 |
| 22.... | 2.8 | 3.4 | 2.2 | 2.4 | 2.5 | 7.4 | 48 | 296 | 21 | 13 | 8.0 | 6.3 |
| 23.... | 2.8 | 3.2 | 2.8 | 2.3 | 2.5 | 8.5 | 59 | 314 | 21 | 10 | 11 | 5.8 |
| 24.... | 3.0 | 3.0 | 2.2 | 2.4 | 2.5 | 11 | 74 | 305 | 20 | 11 | 13 | 5.2 |
| 25.... | 8.0 | 2.8 | 1.5 | 2.6 | 2.5 | 12 | 79 | 260 | 24 | 11 | 14 | 4.6 |
| 26.... | 8.0 | 2.8 | .8 | 2.8 | 3.0 | 12 | 98 | 196 | 25 | 10 | 12 | 3.6 |
| 27.... | 6.3 | 2.8 | 1.8 | 3.0 | 3.0 | 11 | 93 | 160 | 25 | 10 | 12 | 4.1 |
| 28.... | 5.2 | 2.8 | 2.0 | 2.5 | 3.0 | 8.0 | 66 | 133 | 37 | 15 | 7.4 | 6.8 |
| 29.... | 7.4 | 2.8 | 2.2 | 3.0 | 3.6 | 7.4 | 57 | 98 | 41 | 14 | 6.8 | 13 |
| 30.... | 7.4 | 2.8 | 2.4 | 3.0 | .... | 6.8 | 54 | 82 | 39 | 10 | 6.8 | 17 |
| 31.... | 7.4 | .... | 2.6 | 2.8 | .... | 8.5 | .... | 71 | .... | 7.4 | 6.8 | .... |
| Total | 135.2 | 133.3 | 68.2 | 82.9 | 78.3 | 153.2 | 892.3 | 8276 | 951 | 575.4 | 373.6 | 156.8 |
| Mean | 4.36 | 4.44 | 2.20 | 2.67 | 2.70 | 4.94 | 29.7 | 267 | 31.7 | 18.6 | 12.1 | 5.23 |
| Max.. | 8.0 | 7.4 | 3.0 | 3.3 | 3.6 | 12 | 98 | 503 | 66 | 30 | 27 | 1.7 |
| Min.. | 2.5 | 2.8 | .8 | 1.5 | 2.2 | 1.7 | 3.0 | 54 | 15 | 7.4 | 4.1 | 1.2 |
| Acre-ft. | 268 | 264 | 135 | 164 | 155 | 304 | 1770 | 16420 | 1890 | 1140 | 741 | 311 |

Total run-off for water year 1939-40=23,560 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Robideau Creek Near Delta, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| 1 | | | | | | | 21 | 444 | 37 | 4.4 | 4.4 | 3.6 |
| 2 | | | | | | | 33 | 409 | 34 | 5.1 | 4.4 | 3.6 |
| 3 | | | | | | | 55 | 393 | 28 | 5.6 | 4.2 | 3.6 |
| 4 | | | | | | | 93 | 374 | 25 | 4.9 | 4.2 | 3.8 |
| 5 | | | | | | | 119 | 367 | 24 | 5.1 | 4.2 | 4.4 |
| 6 | | | | | | | 126 | 355 | 22 | 4.9 | 4.7 | 5.4 |
| 7 | | | | | | | 106 | 267 | 19 | 4.9 | 4.7 | 6.5 |
| 8 | | | | | | | 103 | 219 | 16 | 5.1 | 4.7 | 9.4 |
| 9 | | | | | | | 143 | 200 | 15 | 5.1 | 4.9 | 8.1 |
| 10 | | | | | | | 168 | 203 | 14 | 4.9 | 4.9 | 9.0 |
| 11 | | | | | | | 132 | 198 | 13 | 4.7 | 4.7 | 9.4 |
| 12 | | | | | | | 124 | 176 | 12 | 4.4 | 4.7 | 8.1 |
| 13 | | | | | | | 161 | 154 | 9.8 | 5.1 | 4.2 | 8.6 |
| 14 | | | | | | | 192 | 141 | 8.6 | 4.7 | 3.9 | 8.6 |
| 15 | | | | | | | 154 | 134 | 7.7 | 4.7 | 3.8 | 11 |
| 16 | | | | | | | 126 | 128 | 8.6 | 4.4 | 3.8 | 11 |
| 17 | | | | | | | 103 | 115 | 5.6 | 4.2 | 3.8 | 10 |
| 18 | | | | | | | 101 | 106 | 6.0 | 3.9 | 3.6 | 9.8 |
| 19 | | | | | | | 122 | 99 | 5.8 | 3.9 | 3.8 | 11 |
| 20 | | | | | | | 147 | 106 | 7.7 | 3.9 | 3.8 | 11 |
| 21 | | | | | | | 209 | 98 | 9.0 | 3.9 | 4.0 | 11 |
| 22 | | | | | | | 288 | 85 | 9.0 | 3.9 | 5.1 | 10 |
| 23 | | | | | | | 333 | 75 | 7.3 | 3.9 | 6.5 | 11 |
| 24 | | | | | | | 284 | 64 | 6.5 | 3.8 | 5.6 | 13 |
| 25 | | | | | | | 257 | 56 | 6.0 | 3.9 | 5.4 | 14 |
| 26 | | | | | | | 257 | 49 | 6.3 | 4.2 | 4.4 | 14 |
| 27 | | | | | | | 302 | 42 | 6.0 | 4.7 | 4.2 | 13 |
| 28 | | | | | | 29 | 393 | 41 | 5.6 | 4.9 | 4.4 | 12 |
| 29 | | | | | | 39 | 416 | 35 | 5.4 | 4.7 | 4.2 | 11 |
| 30 | | | | | | 28 | 432 | 33 | 5.1 | 4.4 | 3.8 | 11 |
| 31 | | | | | | 23 | | 37 | | 4.4 | | 3.8 |
| Total | | | | | | | 5500 | 5203 | 385.0 | 140.6 | 136.8 | 275.9 |
| Mean | | | | | | | 183 | 168 | 12.8 | 4.54 | 4.41 | 9.20 |
| Max. | | | | | | | 432 | 444 | 37 | 5.6 | 6.5 | 14 |
| Min. | | | | | | | 21 | 33 | 5.1 | 3.8 | 3.6 | 3.6 |
| Acre-ft. | | | | | | | 10910 | 10320 | 764 | 279 | 271 | 547 |

Total run-off for period=23,091 acre-feet.

Discharge of Roubideau Creek Near Delta, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|------|------|------|-------|--------|-------|-------|-------|-------|-------|
| 1 | 11 | 8.6 | 1.6 | 0.9 | 0.8 | 1.6 | 6.7 | 146 | 80 | 5.5 | 5.5 | 4.9 |
| 2 | 10 | 3.3 | 1.2 | .9 | .8 | 1.7 | 10 | 163 | 70 | 5.2 | 5.8 | 3.8 |
| 3 | 10 | 4.0 | 1.2 | 1.4 | .9 | 1.7 | 7.0 | 213 | 63 | 5.2 | 5.2 | 3.3 |
| 4 | 4.6 | 5.8 | 1.2 | 1.4 | .9 | 1.4 | 5.8 | 347 | 58 | 6.1 | 4.3 | 3.6 |
| 5 | 7.4 | 5.2 | 1.2 | 1.1 | 1.0 | 1.5 | 5.2 | 415 | 47 | 5.8 | 4.6 | 4.0 |
| 6 | 4.0 | 5.2 | 1.2 | .9 | 1.1 | 1.6 | 7.0 | 404 | 43 | 5.5 | 4.3 | 4.3 |
| 7 | 6.1 | 2.2 | 1.4 | .9 | 1.1 | 1.6 | 7.4 | 434 | 38 | 5.5 | 4.0 | 4.0 |
| 8 | 6.4 | 6.4 | 1.5 | .8 | 1.1 | 2.5 | 8.6 | 401 | 36 | 5.5 | 4.3 | 3.6 |
| 9 | 8.6 | 8.6 | 1.6 | .8 | .7 | 2.0 | 5.8 | 460 | 36 | 5.2 | 3.6 | 4.3 |
| 10 | 8.2 | 2.7 | 1.6 | .8 | .7 | 3.8 | 7.8 | 488 | 35 | 4.9 | 3.6 | 4.3 |
| 11 | 5.2 | 2.0 | 1.7 | .5 | .8 | 6.7 | 16 | 508 | 32 | 5.5 | 4.0 | 4.9 |
| 12 | 2.5 | 2.9 | 2.5 | .5 | .8 | 11 | 17 | 488 | 23 | 5.2 | 4.3 | 5.2 |
| 13 | 3.3 | 3.1 | 1.8 | .4 | .6 | 11 | 11 | 464 | 19 | 4.9 | 4.9 | 4.0 |
| 14 | 6.4 | 3.6 | 1.5 | .4 | .6 | 9.0 | 20 | 422 | 16 | 4.9 | 4.9 | 6.1 |
| 15 | 3.8 | 3.6 | 1.4 | .4 | .8 | 6.4 | 36 | 354 | 16 | 5.2 | 4.9 | 7.8 |
| 16 | 3.3 | 1.7 | 1.2 | .4 | .8 | 5.8 | 47 | 351 | 17 | 8.6 | 4.6 | 8.2 |
| 17 | 2.9 | 1.6 | 1.1 | .4 | .7 | 4.0 | 40 | 422 | 13 | 2.2 | 4.6 | 10 |
| 18 | 2.9 | 1.6 | 1.1 | .3 | 1.0 | 5.8 | 35 | 368 | 10 | 9.0 | 5.8 | 10 |
| 19 | 3.3 | 1.8 | 1.1 | .3 | .9 | 4.0 | 36 | 300 | 10 | 7.4 | 5.5 | 8.2 |
| 20 | 2.7 | 1.6 | 1.1 | .4 | 1.2 | 1.5 | 60 | 245 | 10 | 7.8 | 4.0 | 8.2 |
| 21 | 2.7 | 1.7 | .8 | .5 | 1.2 | 1.4 | 139 | 233 | 8.6 | 7.0 | 3.8 | 9.0 |
| 22 | 2.7 | 1.7 | .8 | .6 | 1.1 | 2.0 | 196 | 218 | 8.2 | 7.0 | 4.6 | 11 |
| 23 | 3.1 | 1.6 | .7 | .6 | 1.2 | 3.3 | 213 | 196 | 7.8 | 7.4 | 4.6 | 12 |
| 24 | 2.5 | 1.6 | .7 | .6 | 1.2 | 3.8 | 270 | 180 | 7.4 | 6.7 | 4.6 | 18 |
| 25 | 3.1 | 1.6 | .6 | .7 | 1.4 | 2.5 | 313 | 163 | 6.1 | 6.1 | 4.0 | 26 |
| 26 | 3.1 | 1.6 | .8 | .9 | 2.0 | 2.9 | 358 | 153 | 6.1 | 6.1 | 4.3 | 22 |
| 27 | 5.8 | 1.6 | 1.2 | .8 | 1.8 | 4.3 | 361 | 142 | 5.8 | 5.8 | 3.8 | 18 |
| 28 | 4.9 | 1.6 | 1.4 | .8 | 1.8 | 13 | 257 | 133 | 5.2 | 7.0 | 3.8 | 19 |
| 29 | 7.0 | 1.6 | 1.7 | .7 | 1.6 | 10 | 204 | 118 | 5.8 | 7.4 | 3.8 | 20 |
| 30 | 7.8 | 1.6 | 1.7 | .7 | .... | 6.4 | 170 | 102 | 7.8 | 7.0 | 3.8 | 104 |
| 31 | 9.0 | .... | 1.4 | .7 | .... | 5.5 | .... | 90 | .... | 6.7 | 3.8 | .... |
| Total | 164.3 | 91.7 | 40.0 | 21.5 | 30.6 | 139.7 | 2870.3 | 9121 | 740.8 | 209.1 | 137.6 | 371.7 |
| Mean | 5.30 | 3.06 | 1.29 | .69 | 1.06 | 4.51 | 95.7 | 294 | 24.7 | 6.75 | 4.44 | 12.4 |
| Max. | 11 | 8.6 | 2.5 | 1.4 | 2.0 | 13 | 361 | 508 | 80 | 22 | 5.8 | 104 |
| Min. | 2.5 | 1.6 | .6 | .3 | .6 | 1.4 | 5.2 | 90 | 5.2 | 4.9 | 3.6 | 3.3 |
| Acre-ft. | 326 | 182 | 79 | 43 | 61 | 277 | 5690 | 18090 | 1470 | 415 | 273 | 737 |

Total run-off for water year 1939-40=27,640 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Robideau Creek at Mouth Near Delta, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|---------|-------|-------|-------|------|------|-------|
| 1..... | | | | | | | 56 | 604 | 91 | 44 | 55 | 44 |
| 2..... | | | | | | | 76 | 555 | 93 | 47 | 55 | 44 |
| 3..... | | | | | | | 107 | 514 | 82 | 50 | 47 | 44 |
| 4..... | | | | | | | 153 | 466 | 80 | 45 | 48 | 38 |
| 5..... | | | | | | | 196 | 456 | 82 | 45 | 47 | 45 |
| 6..... | | | | | | | 256 | 453 | 70 | 41 | 48 | 74 |
| 7..... | | | | | | | 202 | 350 | 68 | 41 | 72 | 102 |
| 8..... | | | | | | | 150 | 283 | 66 | 44 | 102 | 119 |
| 9..... | | | | | | | 214 | 262 | 60 | 45 | 89 | 122 |
| 10..... | | | | | | | 277 | 262 | 62 | 40 | 74 | 129 |
| 11..... | | | | | | | 211 | 253 | 64 | 40 | 53 | 158 |
| 12..... | | | | | | | 181 | 226 | 66 | 36 | 45 | 137 |
| 13..... | | | | | | | 259 | 202 | 45 | 38 | 41 | 140 |
| 14..... | | | | | | | 354 | 190 | 47 | 38 | 40 | 134 |
| 15..... | | | | | | | 316 | 187 | 52 | 40 | 41 | 170 |
| 16..... | | | | | | | 250 | 187 | 68 | 38 | 38 | 150 |
| 17..... | | | | | | | 184 | 161 | 68 | 37 | 38 | 137 |
| 18..... | | | | | | | 153 | 140 | 66 | 36 | 36 | 129 |
| 19..... | | | | | | | 184 | 129 | 74 | 36 | 41 | 129 |
| 20..... | | | | | | | 232 | 129 | 76 | 38 | 38 | 134 |
| 21..... | | | | | | Mar. 23 | 274 | 117 | 56 | 37 | 42 | 132 |
| 22..... | | | | | | to 31 | 392 | 105 | 47 | 41 | 40 | 129 |
| 23..... | | | | | | 60 | 501 | 102 | 50 | 38 | 38 | 127 |
| 24..... | | | | | | 76 | 434 | 91 | 55 | 41 | 36 | 132 |
| 25..... | | | | | | 76 | 363 | 91 | 52 | 37 | 34 | 134 |
| 26..... | | | | | | 74 | 354 | 80 | 50 | 41 | 32 | 134 |
| 27..... | | | | | | 91 | 402 | 72 | 45 | 45 | 35 | 127 |
| 28..... | | | | | | 87 | 546 | 74 | 44 | 50 | 38 | 117 |
| 29..... | | | | | | 82 | 558 | 72 | 44 | 68 | 44 | 112 |
| 30..... | | | | | | 74 | 601 | 70 | 44 | 72 | 41 | 110 |
| 31..... | | | | | | 58 | ..... | 80 | ..... | 72 | 40 | ..... |
| Total | | | | | | 678 | 8436 | 6963 | 1867 | 1361 | 1468 | 3483 |
| Mean. | | | | | | 75.3 | 281 | 225 | 62.2 | 43.9 | 47.4 | 114 |
| Max. | | | | | | 91 | 601 | 604 | 93 | 72 | 102 | 170 |
| Min. | | | | | | 58 | 56 | 70 | 44 | 36 | 32 | 38 |
| Acre-ft. | | | | | | 1340 | 16730 | 13810 | 3700 | 2700 | 2910 | 6810 |

Total run-off for period=48,000 acre-feet.

Discharge of Roubideau Creek at Mouth Near Delta, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|------|-------|------|-------|-------|-------|------|------|-------|
| 1..... | 114 | 105 | 53 | 40 | 30 | 25 | 74 | 226 | 132 | 53 | 70 | 78 |
| 2..... | 117 | 52 | 55 | 48 | 30 | 30 | 91 | 256 | 127 | 44 | 66 | 66 |
| 3..... | 122 | 62 | 58 | 45 | 31 | 38 | 68 | 316 | 124 | 44 | 56 | 56 |
| 4..... | 74 | 70 | 58 | 40 | 32 | 38 | 50 | 530 | 110 | 64 | 53 | 52 |
| 5..... | 112 | 56 | 58 | 34 | 32 | 37 | 38 | 628 | 98 | 62 | 55 | 48 |
| 6..... | 76 | 52 | 60 | 29 | 31 | 35 | 53 | 618 | 89 | 48 | 52 | 47 |
| 7..... | 105 | 40 | 60 | 26 | 31 | 36 | 68 | 676 | 91 | 50 | 55 | 52 |
| 8..... | 105 | 56 | 60 | 26 | 31 | 45 | 58 | 587 | 105 | 55 | 52 | 50 |
| 9..... | 102 | 82 | 60 | 27 | 28 | 44 | 38 | 669 | 122 | 47 | 52 | 50 |
| 10..... | 85 | 102 | 48 | 27 | 28 | 45 | 50 | 696 | 129 | 45 | 45 | 50 |
| 11..... | 87 | 78 | 45 | 28 | 28 | 52 | 85 | 706 | 117 | 52 | 45 | 48 |
| 12..... | 96 | 74 | 44 | 36 | 27 | 56 | 62 | 642 | 98 | 55 | 38 | 72 |
| 13..... | 96 | 74 | 44 | 29 | 26 | 55 | 41 | 552 | 80 | 45 | 37 | 82 |
| 14..... | 93 | 76 | 44 | 28 | 31 | 45 | 42 | 523 | 62 | 48 | 38 | 110 |
| 15..... | 89 | 76 | 42 | 27 | 40 | 47 | 68 | 472 | 72 | 47 | 64 | 119 |
| 16..... | 82 | 72 | 40 | 27 | 37 | 44 | 89 | 475 | 70 | 52 | 55 | 105 |
| 17..... | 78 | 68 | 40 | 24 | 36 | 41 | 76 | 578 | 53 | 82 | 40 | 117 |
| 18..... | 82 | 62 | 40 | 23 | 34 | 42 | 53 | 488 | 48 | 56 | 55 | 142 |
| 19..... | 91 | 62 | 37 | 23 | 35 | 32 | 53 | 418 | 40 | 52 | 66 | 124 |
| 20..... | 110 | 64 | 38 | 26 | 31 | 17 | 96 | 354 | 47 | 58 | 55 | 132 |
| 21..... | 102 | 64 | 40 | 26 | 29 | 30 | 184 | 344 | 45 | 70 | 35 | 140 |
| 22..... | 93 | 68 | 40 | 24 | 30 | 36 | 271 | 325 | 44 | 70 | 52 | 142 |
| 23..... | 82 | 64 | 38 | 24 | 31 | 27 | 292 | 295 | 44 | 64 | 100 | 145 |
| 24..... | 72 | 64 | 38 | 22 | 27 | 40 | 357 | 271 | 47 | 68 | 110 | 150 |
| 25..... | 80 | 62 | 40 | 26 | 26 | 52 | 421 | 256 | 41 | 62 | 72 | 158 |
| 26..... | 96 | 60 | 32 | 24 | 29 | 45 | 491 | 235 | 37 | 60 | 74 | 147 |
| 27..... | 91 | 60 | 31 | 24 | 27 | 45 | 546 | 217 | 38 | 48 | 74 | 132 |
| 28..... | 93 | 58 | 32 | 25 | 26 | 70 | 402 | 170 | 40 | 68 | 70 | 129 |
| 29..... | 110 | 47 | 31 | 26 | 26 | 68 | 310 | 153 | 42 | 87 | 70 | 137 |
| 30..... | 110 | 55 | 31 | 27 | ..... | 64 | 265 | 145 | 62 | 82 | 74 | 370 |
| 31..... | 117 | ..... | 30 | 28 | ..... | 44 | ..... | 134 | ..... | 82 | 85 | ..... |
| Total | 2962 | 1985 | 1367 | 889 | 880 | 1325 | 4792 | 12955 | 2254 | 1820 | 1865 | 3250 |
| Mean. | 95.5 | 66.2 | 44.1 | 28.7 | 30.3 | 42.7 | 160 | 418 | 75.1 | 58.7 | 60.2 | 108 |
| Max. | 122 | 105 | 60 | 48 | 40 | 70 | 546 | 706 | 132 | 87 | 110 | 370 |
| Min. | 74 | 40 | 30 | 22 | 26 | 17 | 38 | 134 | 37 | 44 | 35 | 47 |
| Acre-ft. | 5880 | 3940 | 2710 | 1760 | 1750 | 2630 | 9500 | 25700 | 4470 | 3610 | 3700 | 6450 |

Total run-off for water year 1939-40=72,100 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Dolores River at Dolores, Colo., for Year Ending Sept. 30, 1939

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|-------|-------|-------|-------|------|------|-------|
| 1.... | 107 | 107 | 83 | 42 | 44 | 46 | 263 | 1260 | 453 | 132 | 97 | 73 |
| 2.... | 107 | 120 | 78 | 41 | 40 | 50 | 356 | 1320 | 888 | 129 | 79 | 70 |
| 3.... | 116 | 96 | 67 | 47 | 36 | 52 | 502 | 1250 | 894 | 131 | 68 | 59 |
| 4.... | 113 | 97 | 80 | 46 | 39 | 55 | 588 | 1290 | 946 | 131 | 68 | 55 |
| 5.... | 111 | 113 | 85 | 41 | 35 | 54 | 620 | 1480 | 1010 | 127 | 69 | 57 |
| 6.... | 120 | 84 | 90 | 50 | 52 | 50 | 661 | 1610 | 870 | 120 | 70 | 91 |
| 7.... | 140 | 85 | 80 | 50 | 54 | 54 | 536 | 1230 | 740 | 114 | 113 | 202 |
| 8.... | 219 | 90 | 70 | 55 | 53 | 56 | 588 | 1220 | 661 | 105 | 118 | 248 |
| 9.... | 204 | 107 | 66 | 52 | 41 | 56 | 763 | 1340 | 609 | 100 | 88 | 240 |
| 10.... | 173 | 113 | 55 | 50 | 32 | 58 | 703 | 1470 | 578 | 96 | 74 | 182 |
| 11.... | 165 | 96 | 45 | 48 | 35 | 56 | 542 | 1490 | 552 | 92 | 66 | 272 |
| 12.... | 158 | 80 | 40 | 47 | 40 | 62 | 604 | 1350 | 516 | 84 | 60 | 341 |
| 13.... | 160 | 76 | 45 | 46 | 42 | 72 | 718 | 1180 | 488 | 78 | 55 | 308 |
| 14.... | 169 | 59 | 50 | 46 | 44 | 86 | 724 | 1010 | 465 | 70 | 53 | 248 |
| 15.... | 176 | 92 | 50 | 50 | 47 | 90 | 552 | 987 | 422 | 70 | 54 | 189 |
| 16.... | 202 | 102 | 56 | 39 | 50 | 96 | 492 | 960 | 371 | 76 | 51 | 156 |
| 17.... | 200 | 104 | 52 | 38 | 55 | 140 | 438 | 846 | 322 | 70 | 47 | 132 |
| 18.... | 176 | 97 | 53 | 43 | 54 | 190 | 469 | 822 | 287 | 62 | 45 | 114 |
| 19.... | 158 | 88 | 51 | 50 | 46 | 210 | 588 | 1070 | 257 | 53 | 44 | 98 |
| 20.... | 145 | 102 | 63 | 62 | 41 | 230 | 646 | 1270 | 240 | 49 | 42 | 96 |
| 21.... | 138 | 98 | 58 | 60 | 36 | 270 | 858 | 1270 | 221 | 49 | 41 | 92 |
| 22.... | 132 | 91 | 56 | 54 | 39 | 310 | 1110 | 1330 | 209 | 49 | 42 | 86 |
| 23.... | 125 | 76 | 80 | 48 | 44 | 360 | 1180 | 1300 | 202 | 50 | 41 | 80 |
| 24.... | 118 | 60 | 40 | 44 | 46 | 383 | 926 | 1140 | 200 | 50 | 40 | 72 |
| 25.... | 113 | 67 | 44 | 39 | 56 | 386 | 804 | 894 | 198 | 49 | 40 | 72 |
| 26.... | 111 | 50 | 42 | 41 | 69 | 398 | 858 | 792 | 182 | 48 | 48 | 86 |
| 27.... | 109 | 60 | 43 | 42 | 62 | 356 | 953 | 816 | 167 | 52 | 53 | 113 |
| 28.... | 107 | 60 | 44 | 40 | 55 | 278 | 1140 | 858 | 154 | 74 | 59 | 109 |
| 29.... | 100 | 60 | 47 | 36 | .... | 254 | 1300 | 876 | 143 | 147 | 73 | 96 |
| 30.... | 98 | 75 | 47 | 35 | .... | 214 | 1270 | 966 | 134 | 138 | 94 | 85 |
| 31.... | 100 | .... | 43 | 40 | .... | 216 | .... | 946 | .... | 118 | 78 | .... |
| Total | 4370 | 2605 | 1803 | 1422 | 1287 | 5188 | 21752 | 35643 | 13879 | 2713 | 1970 | 4122 |
| Mean. | 141 | 86.8 | 58.2 | 45.9 | 46.0 | 167 | 725 | 1150 | 463 | 87.5 | 63.5 | 137 |
| Max. | 219 | 120 | 90 | 62 | 69 | 398 | 1300 | 1610 | 1010 | 147 | 118 | 341 |
| Min. | 98 | 50 | 40 | 35 | 32 | 46 | 263 | 792 | 134 | 48 | 40 | 55 |
| Acre-ft. | 8670 | 5170 | 3580 | 2820 | 2550 | 10290 | 43140 | 70700 | 27530 | 5380 | 3910 | 8180 |

Total run-off for water year 1938-39=191,900 acre-feet.

Discharge of Dolores River at Dolores, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|-------|-------|------|-------|
| 1.... | 73 | 60 | 37 | 24 | 35 | 45 | 207 | 792 | 1690 | 226 | 178 | 61 |
| 2.... | 67 | 60 | 38 | 24 | 35 | 50 | 191 | 1000 | 1670 | 200 | 184 | 62 |
| 3.... | 64 | 59 | 39 | 24 | 35 | 50 | 169 | 1120 | 1530 | 180 | 176 | 91 |
| 4.... | 61 | 58 | 38 | 25 | 36 | 54 | 169 | 1310 | 1410 | 167 | 173 | 82 |
| 5.... | 60 | 57 | 40 | 25 | 29 | 50 | 191 | 1440 | 1240 | 160 | 171 | 70 |
| 6.... | 57 | 58 | 33 | 23 | 27 | 44 | 191 | 1340 | 1140 | 151 | 180 | 62 |
| 7.... | 55 | 58 | 31 | 17 | 40 | 49 | 191 | 1580 | 994 | 136 | 191 | 68 |
| 8.... | 60 | 53 | 30 | 21 | 37 | 51 | 195 | 1430 | 912 | 154 | 180 | 66 |
| 9.... | 73 | 57 | 32 | 23 | 37 | 65 | 209 | 1450 | 840 | 176 | 169 | 57 |
| 10.... | 69 | 57 | 28 | 26 | 37 | 60 | 229 | 1690 | 729 | 173 | 154 | 55 |
| 11.... | 61 | 48 | 26 | 30 | 38 | 59 | 232 | 1680 | 687 | 167 | 154 | 49 |
| 12.... | 61 | 50 | 26 | 27 | 37 | 58 | 269 | 1650 | 677 | 160 | 138 | 52 |
| 13.... | 60 | 53 | 20 | 24 | 36 | 54 | 345 | 1640 | 682 | 158 | 122 | 57 |
| 14.... | 57 | 50 | 22 | 20 | 40 | 61 | 492 | 1870 | 687 | 156 | 116 | 59 |
| 15.... | 56 | 44 | 20 | 27 | 43 | 60 | 635 | 1860 | 661 | 180 | 118 | 60 |
| 16.... | 55 | 40 | 21 | 28 | 40 | 65 | 573 | 1840 | 562 | 180 | 125 | 59 |
| 17.... | 53 | 40 | 22 | 29 | 39 | 74 | 426 | 1860 | 512 | 191 | 134 | 68 |
| 18.... | 51 | 40 | 21 | 28 | 41 | 76 | 465 | 1750 | 483 | 195 | 136 | 237 |
| 19.... | 51 | 38 | 20 | 21 | 43 | 82 | 729 | 1420 | 438 | 184 | 145 | 333 |
| 20.... | 48 | 38 | 20 | 27 | 38 | 94 | 1060 | 1290 | 410 | 173 | 158 | 333 |
| 21.... | 48 | 47 | 21 | 30 | 45 | 111 | 1310 | 1220 | 379 | 180 | 158 | 269 |
| 22.... | 47 | 49 | 21 | 22 | 46 | 131 | 1290 | 1230 | 375 | 171 | 109 | 315 |
| 23.... | 46 | 46 | 17 | 25 | 45 | 156 | 1360 | 1260 | 345 | 171 | 82 | 298 |
| 24.... | 45 | 43 | 16 | 28 | 45 | 184 | 1250 | 1460 | 308 | 184 | 100 | 263 |
| 25.... | 47 | 39 | 22 | 31 | 46 | 212 | 1160 | 1500 | 278 | 189 | 123 | 237 |
| 26.... | 68 | 44 | 20 | 31 | 47 | 234 | 1190 | 1500 | 257 | 169 | 160 | 204 |
| 27.... | 69 | 46 | 18 | 32 | 48 | 243 | 1260 | 1670 | 234 | 167 | 136 | 195 |
| 28.... | 55 | 40 | 20 | 32 | 45 | 224 | 946 | 1710 | 214 | 165 | 107 | 184 |
| 29.... | 55 | 42 | 21 | 33 | 45 | 184 | 810 | 1540 | 202 | 219 | 90 | 254 |
| 30.... | 57 | 38 | 22 | 33 | .... | 169 | 713 | 1560 | 219 | 195 | 73 | 301 |
| 31.... | 57 | .... | 23 | 34 | .... | 189 | .... | 1670 | .... | 182 | 64 | .... |
| Total | 1786 | 1452 | 785 | 824 | 1155 | 3238 | 18457 | 46332 | 20765 | 5459 | 4304 | 4551 |
| Mean. | 57.6 | 48.4 | 25.3 | 26.6 | 39.8 | 104 | 615 | 1495 | 692 | 176 | 139 | 152 |
| Max. | 73 | 60 | 40 | 34 | 48 | 243 | 1360 | 1870 | 1690 | 226 | 191 | 333 |
| Min. | 45 | 38 | 16 | 17 | 27 | 44 | 169 | 792 | 202 | 136 | 64 | 49 |
| Acre-ft. | 3540 | 2880 | 1560 | 1630 | 2290 | 6420 | 36610 | 91900 | 41190 | 10830 | 8540 | 9030 |

Total run-off for water year 1939-40=216,420 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Dolores River Near McPhee, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|--------|------|------|------|------|-------|-------|-------|--------|-------|-------|-------|
| 1.... | 7.0 | 14 | 79 | 25 | 33 | 44 | 551 | 1040 | 512 | 5.3 | 5.0 | 5.3 |
| 2.... | 7.0 | 27 | 64 | 23 | 30 | 42 | 630 | 1100 | 438 | 4.6 | 5.0 | 4.6 |
| 3.... | 7.0 | 32 | 61 | 32 | 22 | 44 | 961 | 979 | 431 | 4.8 | 4.8 | 4.4 |
| 4.... | 7.0 | 26 | 68 | 31 | 31 | 42 | 1090 | 1000 | 475 | 5.0 | 9.3 | 4.3 |
| 5.... | 7.0 | 32 | 80 | 21 | 15 | 40 | 908 | 1160 | 574 | 4.8 | 20 | 5.9 |
| 6.... | 7.0 | 32 | 76 | 22 | 22 | 42 | 821 | 1280 | 431 | 4.3 | 12 | 10 |
| 7.... | 13 | 101 | 72 | 27 | 50 | 44 | 582 | 900 | 263 | 4.4 | 10 | 48 |
| 8.... | 54 | 79 | 61 | 36 | 45 | 46 | 582 | 856 | 168 | 4.0 | 18 | 42 |
| 9.... | 105 | 79 | 61 | 30 | 35 | 48 | 804 | 935 | 116 | 3.8 | 9.7 | 33 |
| 10.... | 79 | 57 | 45 | 30 | 15 | 50 | 786 | 1070 | 79 | 4.0 | 7.4 | 10 |
| 11.... | 75 | 38 | 42 | 29 | 20 | 48 | 543 | 1140 | 64 | 4.0 | 7.8 | 33 |
| 12.... | 72 | 27 | 33 | 29 | 30 | 50 | 590 | 996 | 34 | 4.0 | 8.1 | 137 |
| 13.... | 66 | 40 | 36 | 28 | 33 | 52 | 719 | 812 | 19 | 4.0 | 7.1 | 90 |
| 14.... | 64 | 35 | 47 | 29 | 35 | 60 | 752 | 606 | 15 | 4.0 | 6.6 | 40 |
| 15.... | 68 | 101 | 42 | 30 | 38 | 80 | 520 | 551 | 12 | 4.4 | 6.6 | 12 |
| 16.... | 90 | 109 | 52 | 26 | 42 | 98 | 424 | 512 | 14 | 3.3 | 6.1 | 8.1 |
| 17.... | 101 | 75 | 47 | 20 | 45 | 200 | 324 | 409 | 12 | 3.6 | 5.3 | 7.8 |
| 18.... | 79 | 72 | 48 | 23 | 48 | 300 | 468 | 352 | 11 | 3.2 | 5.0 | 6.8 |
| 19.... | 61 | 50 | 35 | 29 | 37 | 400 | 497 | 590 | 9.7 | 2.7 | 4.8 | 5.9 |
| 20.... | 50 | 68 | 61 | 36 | 25 | 528 | 497 | 847 | 10 | 2.1 | 4.8 | 5.7 |
| 21.... | 40 | 54 | 48 | 41 | 20 | 744 | 769 | 873 | 10 | 2.2 | 5.3 | 5.5 |
| 22.... | 38 | 42 | 50 | 34 | 28 | 882 | 1080 | 935 | 11 | 2.1 | 5.0 | 5.5 |
| 23.... | 32 | 54 | 72 | 30 | 33 | 1080 | 1170 | 935 | 10 | 2.4 | 4.8 | 4.8 |
| 24.... | 24 | 16 | 25 | 28 | 33 | 1130 | 882 | 752 | 10 | 3.2 | 5.3 | 5.0 |
| 25.... | 15 | 22 | 30 | 24 | 39 | 1140 | 727 | 497 | 9.4 | 3.8 | 4.4 | 5.0 |
| 26.... | 13 | 48 | 35 | 25 | 55 | 944 | 778 | 352 | 9.7 | 4.6 | 4.0 | 6.1 |
| 27.... | 11 | 57 | 33 | 29 | 48 | 795 | 821 | 345 | 8.1 | 5.0 | 5.3 | 7.1 |
| 28.... | 10 | 57 | 31 | 31 | 45 | 528 | 952 | 380 | 8.1 | 9.0 | 7.1 | 14 |
| 29.... | 14 | 59 | 25 | 25 | .... | 543 | 1090 | 402 | 7.1 | 11 | 6.6 | 7.8 |
| 30.... | 12 | 70 | 26 | 25 | .... | 453 | 1080 | 497 | 5.5 | 10 | 11 | 6.8 |
| 31.... | 13 | .... | 30 | 30 | .... | 438 | .... | 512 | .... | 5.0 | 6.4 | .... |
| Total | 1241.0 | 1573 | 1515 | 878 | 952 | 10935 | 22398 | 23615 | 3777.6 | 138.6 | 312.3 | 581.4 |
| Mean. | 40.0 | 52.4 | 48.9 | 28.3 | 34.0 | 353 | 747 | 762 | 126 | 4.47 | 10.1 | 19.4 |
| Max. | 105 | 109 | 80 | 41 | 55 | 1140 | 1170 | 1280 | 574 | 11 | 9.3 | 137 |
| Min. | 7 | 14 | 25 | 20 | 15 | 40 | 324 | 345 | 5.5 | 2.1 | 4.0 | 4.3 |
| Acre-ft. | 2460 | 3120 | 3000 | 1740 | 1890 | 21690 | 44430 | 46840 | 7490 | 275 | 619 | 1150 |

Total run-off for water year 1938-39=134,700 acre-feet.

Discharge of Dolores River Near McPhee, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|------|------|------|-------|-------|--------|-------|-------|--------|
| 1.... | 6.1 | 6.1 | 4.4 | 25 | 5.0 | 50 | 224 | 970 | 1220 | 10 | 3.0 | 3.8 |
| 2.... | 5.5 | 6.6 | 4.3 | 25 | 5.0 | 30 | 86 | 1180 | 1210 | 7.1 | 3.0 | 4.3 |
| 3.... | 5.5 | 6.4 | 4.8 | 10 | 5.0 | 30 | 68 | 1210 | 1080 | 6.6 | 2.8 | 5.7 |
| 4.... | 21 | 6.6 | 4.6 | 10 | 5.0 | 30 | 132 | 1370 | 961 | 5.9 | 2.7 | 5.5 |
| 5.... | 19 | 6.4 | 4.0 | 10 | 5.0 | 31 | 263 | 1510 | 786 | 7.1 | 2.1 | 4.1 |
| 6.... | 19 | 6.4 | 4.8 | 10 | 5.0 | 19 | 388 | 1260 | 678 | 6.1 | 2.6 | 3.6 |
| 7.... | 6.8 | 6.6 | 4.1 | 10 | 5.0 | 18 | 416 | 1520 | 535 | 5.5 | 5.7 | 3.5 |
| 8.... | 7.8 | 7.1 | 4.1 | 10 | 5.0 | 16 | 380 | 1350 | 445 | 4.6 | 5.9 | 3.2 |
| 9.... | 6.8 | 8.1 | 4.1 | 10 | 5.0 | 17 | 359 | 1280 | 359 | 4.0 | 5.9 | 3.2 |
| 10.... | 6.8 | 7.4 | 4.6 | 10 | 4.2 | 22 | 289 | 1500 | 237 | 4.1 | 5.7 | 2.9 |
| 11.... | 7.4 | 6.8 | 4.6 | 27 | 4.3 | 22 | 256 | 1530 | 180 | 3.8 | 5.9 | 3.0 |
| 12.... | 6.4 | 6.4 | 5.0 | 27 | 4.4 | 16 | 317 | 1460 | 168 | 4.6 | 4.4 | 3.0 |
| 13.... | 6.8 | 6.1 | 4.3 | 27 | 4.5 | 16 | 416 | 1410 | 168 | 4.6 | 4.3 | 3.5 |
| 14.... | 6.6 | 6.1 | 4.3 | 27 | 4.5 | 15 | 606 | 1620 | 187 | 4.1 | 4.0 | 3.2 |
| 15.... | 6.4 | 5.9 | 4.0 | 27 | 4.0 | 15 | 812 | 1620 | 168 | 4.1 | 3.8 | 3.0 |
| 16.... | 5.9 | 5.7 | 4.0 | 27 | 4.0 | 18 | 804 | 1630 | 94 | 4.4 | 3.8 | 3.2 |
| 17.... | 5.7 | 5.3 | 4.0 | 27 | 4.0 | 26 | 662 | 1640 | 55 | 4.4 | 3.3 | 3.8 |
| 18.... | 5.5 | 5.0 | 4.0 | 27 | 4.1 | 29 | 662 | 1580 | 32 | 5.3 | 2.8 | 2.8 |
| 19.... | 5.3 | 5.5 | 4.0 | 28 | 4.1 | 23 | 1010 | 1260 | 13 | 5.3 | 2.9 | 28.9 |
| 20.... | 5.0 | 5.9 | 4.0 | 28 | 4.1 | 27 | 1420 | 1040 | 8.4 | 4.6 | 4.4 | 27.0 |
| 21.... | 5.0 | 5.7 | 4.0 | 29 | 4.2 | 42 | 1660 | 917 | 5.9 | 4.4 | 5.3 | 16.3 |
| 22.... | 4.8 | 5.5 | 4.0 | 29 | 4.7 | 68 | 1550 | 917 | 8.7 | 4.0 | 5.3 | 22.4 |
| 23.... | 4.6 | 5.0 | 4.0 | 29 | 4.7 | 86 | 1580 | 917 | 10 | 3.8 | 6.1 | 18.7 |
| 24.... | 4.8 | 5.5 | 4.0 | 30 | 4.7 | 126 | 1500 | 1120 | 8.7 | 4.0 | 9.4 | 13.7 |
| 25.... | 5.3 | 4.4 | 4.0 | 30 | 4.8 | 174 | 1360 | 1150 | 8.7 | 5.0 | 9.7 | 9.0 |
| 26.... | 7.1 | 4.3 | 4.0 | 30 | 5.0 | 237 | 1340 | 1100 | 9.0 | 3.5 | 11 | 5.4 |
| 27.... | 13 | 4.6 | 4.0 | 31 | 5.0 | 289 | 1410 | 1230 | 8.7 | 4.3 | 7.8 | 4.2 |
| 28.... | 7.8 | 4.6 | 4.0 | 5 | 5.0 | 296 | 1090 | 1280 | 7.8 | 4.1 | 6.6 | 3.8 |
| 29.... | 6.4 | 4.6 | 25 | 5 | 5.0 | 180 | 1110 | 1110 | 8.4 | 4.0 | 5.7 | 9.0 |
| 30.... | 6.1 | 4.6 | 25 | 5 | .... | 193 | 1010 | 1100 | 9.4 | 4.1 | 4.6 | 43.9 |
| 31.... | 5.9 | .... | 25 | 5 | .... | 289 | .... | 1090 | .... | 3.0 | 4.1 | .... |
| Total | 236.1 | 175.2 | 193.0 | 630 | 938 | 2450 | 23180 | 39971 | 8669.7 | 150.4 | 154.6 | 2113.5 |
| Mean. | 7.62 | 5.84 | 6.23 | 20.3 | 32.3 | 79.0 | 773 | 1289 | 289 | 4.85 | 4.99 | 70.4 |
| Max. | 21 | 8.1 | 25 | 31 | 50 | 296 | 1660 | 1640 | 1220 | 10 | 11 | 43.9 |
| Min. | 4.6 | 4.3 | 4 | 5 | 5 | 15 | 68 | 917 | 5.9 | 3 | 2.1 | 2.9 |
| Acre-ft. | 468 | 348 | 383 | 1250 | 1860 | 4860 | 45980 | 79280 | 17200 | 298 | 307 | 4190 |

Total run-off for water year 1939-40=156,420 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Dolores River at Gateway, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|------|------|-------|--------|-------|-------|------|------|-------|
| 1..... | 182 | 176 | 174 | 128 | 132 | 171 | 1220 | 2120 | 950 | 241 | 112 | 132 |
| 2..... | 185 | 182 | 202 | 130 | 134 | 182 | 1580 | 2060 | 930 | 220 | 110 | 107 |
| 3..... | 202 | 213 | 209 | 143 | 110 | 192 | 2180 | 2040 | 902 | 213 | 93 | 99 |
| 4..... | 165 | 189 | 206 | 179 | 116 | 196 | 3040 | 1990 | 911 | 209 | 86 | 80 |
| 5..... | 165 | 182 | 223 | 174 | 122 | 200 | 3870 | 1860 | 945 | 209 | 83 | 84 |
| 6..... | 168 | 182 | 230 | 152 | 154 | 210 | 3610 | 1910 | 988 | 196 | 136 | 182 |
| 7..... | 202 | 185 | 192 | 202 | 176 | 225 | 2780 | 2080 | 1000 | 185 | 238 | 1180 |
| 8..... | 364 | 162 | 196 | 182 | 192 | 250 | 2140 | 1960 | 893 | 176 | 330 | 628 |
| 9..... | 416 | 145 | 206 | 175 | 185 | 370 | 2040 | 1610 | 812 | 174 | 182 | 388 |
| 10..... | 380 | 185 | 223 | 165 | 182 | 500 | 2260 | 1460 | 760 | 168 | 120 | 448 |
| 11..... | 356 | 213 | 220 | 160 | 165 | 444 | 2060 | 1570 | 733 | 165 | 103 | 658 |
| 12..... | 356 | 234 | 216 | 154 | 176 | 460 | 1710 | 1720 | 720 | 160 | 91 | 610 |
| 13..... | 303 | 270 | 174 | 130 | 162 | 416 | 1590 | 1720 | 685 | 150 | 81 | 513 |
| 14..... | 274 | 216 | 152 | 141 | 209 | 534 | 1700 | 1490 | 707 | 136 | 75 | 436 |
| 15..... | 259 | 168 | 154 | 140 | 176 | 547 | 1670 | 1270 | 694 | 126 | 70 | 372 |
| 16..... | 252 | 199 | 174 | 135 | 174 | 468 | 1460 | 1170 | 632 | 118 | 67 | 326 |
| 17..... | 256 | 209 | 230 | 130 | 182 | 484 | 1170 | 1090 | 530 | 118 | 65 | 303 |
| 18..... | 259 | 192 | 220 | 139 | 179 | 539 | 1020 | 988 | 522 | 114 | 62 | 281 |
| 19..... | 270 | 182 | 202 | 141 | 150 | 623 | 982 | 906 | 428 | 107 | 59 | 252 |
| 20..... | 307 | 227 | 216 | 152 | 174 | 755 | 1090 | 884 | 356 | 96 | 58 | 230 |
| 21..... | 296 | 227 | 248 | 176 | 174 | 884 | 1180 | 1160 | 299 | 90 | 56 | 199 |
| 22..... | 281 | 216 | 230 | 196 | 174 | 1300 | 1400 | 1370 | 263 | 86 | 55 | 176 |
| 23..... | 263 | 171 | 206 | 209 | 176 | 1760 | 1830 | 1420 | 252 | 83 | 57 | 162 |
| 24..... | 245 | 124 | 168 | 179 | 171 | 2050 | 2090 | 1400 | 277 | 81 | 56 | 150 |
| 25..... | 230 | 120 | 136 | 171 | 171 | 2300 | 1860 | 1260 | 296 | 78 | 55 | 152 |
| 26..... | 220 | 152 | 136 | 152 | 189 | 2250 | 1540 | 1180 | 303 | 79 | 53 | 160 |
| 27..... | 220 | 171 | 103 | 132 | 182 | 2550 | 1480 | 920 | 299 | 78 | 52 | 168 |
| 28..... | 209 | 157 | 116 | 139 | 182 | 2250 | 1540 | 834 | 277 | 78 | 68 | 174 |
| 29..... | 202 | 154 | 139 | 150 | .... | 1810 | 1700 | 848 | 259 | 83 | 619 | 185 |
| 30..... | 189 | 165 | 139 | 160 | .... | 1470 | 2010 | 902 | 256 | 94 | 341 | 196 |
| 31..... | 182 | .... | 132 | 154 | .... | 1240 | .... | 970 | .... | 120 | 189 | .... |
| Total | 7858 | 5568 | 5772 | 4870 | 4669 | 27630 | 55712 | 44162 | 17879 | 4231 | 3822 | 9031 |
| Mean. | 253 | 186 | 186 | 157 | 167 | 891 | 1857 | 1425 | 596 | 136 | 123 | 301 |
| Max.. | 416 | 270 | 248 | 209 | 209 | 2550 | 3870 | 2120 | 1000 | 241 | 619 | 1180 |
| Min.. | 165 | 120 | 103 | 128 | 110 | 171 | 982 | 834 | 252 | 78 | 52 | 80 |
| Acre-ft. | 15590 | 11040 | 11450 | 9660 | 9260 | 54800 | 110500 | 87590 | 35460 | 8390 | 7580 | 17910 |

Total run-off for water year 1938-39=379,200 acre-feet.

Discharge of Dolores River at Gateway, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|-------|-------|--------|--------|-------|-------|------|-------|
| 1..... | 147 | 122 | 114 | 108 | 196 | 296 | 790 | 3200 | 2700 | 356 | 136 | 78 |
| 2..... | 145 | 124 | 110 | 112 | 220 | 274 | 1020 | 3090 | 2880 | 337 | 128 | 79 |
| 3..... | 145 | 122 | 110 | 114 | 260 | 248 | 817 | 2730 | 2730 | 292 | 122 | 185 |
| 4..... | 143 | 120 | 112 | 114 | 227 | 241 | 614 | 2860 | 2200 | 270 | 112 | 154 |
| 5..... | 141 | 122 | 110 | 122 | 180 | 206 | 597 | 3320 | 2100 | 263 | 105 | 110 |
| 6..... | 139 | 124 | 112 | 118 | 145 | 192 | 707 | 3200 | 1890 | 256 | 124 | 103 |
| 7..... | 118 | 124 | 114 | 116 | 160 | 192 | 945 | 3050 | 1630 | 241 | 145 | 74 |
| 8..... | 114 | 118 | 112 | 112 | 160 | 192 | 1110 | 3060 | 1510 | 240 | 139 | 64 |
| 9..... | 114 | 118 | 112 | 110 | 150 | 196 | 1040 | 2820 | 1230 | 227 | 124 | 69 |
| 10..... | 112 | 118 | 114 | 108 | 143 | 202 | 1120 | 2730 | 1220 | 216 | 112 | 86 |
| 11..... | 114 | 118 | 116 | 106 | 140 | 192 | 1210 | 2990 | 1370 | 157 | 94 | 81 |
| 12..... | 114 | 107 | 112 | 165 | 150 | 189 | 1100 | 3430 | 1230 | 141 | 84 | 79 |
| 13..... | 112 | 103 | 110 | 152 | 141 | 185 | 1200 | 2960 | 884 | 136 | 73 | 83 |
| 14..... | 112 | 103 | 105 | 128 | 132 | 176 | 1540 | 2970 | 880 | 130 | 68 | 84 |
| 15..... | 112 | 103 | 98 | 93 | 141 | 168 | 1900 | 3120 | 920 | 126 | 64 | 90 |
| 16..... | 112 | 105 | 103 | 88 | 157 | 162 | 2210 | 3060 | 880 | 171 | 56 | 84 |
| 17..... | 112 | 112 | 103 | 118 | 141 | 154 | 2010 | 3120 | 795 | 326 | 51 | 84 |
| 18..... | 112 | 118 | 108 | 116 | 139 | 157 | 1700 | 3220 | 738 | 192 | 45 | 141 |
| 19..... | 112 | 116 | 105 | 96 | 152 | 160 | 2000 | 2970 | 724 | 185 | 54 | 345 |
| 20..... | 110 | 114 | 90 | 126 | 168 | 160 | 2660 | 2710 | 654 | 165 | 53 | 400 |
| 21..... | 110 | 110 | 90 | 107 | 154 | 168 | 3570 | 2540 | 597 | 152 | 56 | 412 |
| 22..... | 110 | 112 | 87 | 141 | 147 | 185 | 4020 | 2280 | 551 | 143 | 58 | 667 |
| 23..... | 108 | 114 | 98 | 143 | 168 | 206 | 3790 | 2080 | 526 | 139 | 79 | 632 |
| 24..... | 108 | 114 | 99 | 120 | 209 | 213 | 3670 | 2100 | 468 | 132 | 185 | 518 |
| 25..... | 103 | 114 | 107 | 145 | 256 | 252 | 3830 | 2060 | 452 | 128 | 139 | 509 |
| 26..... | 116 | 118 | 87 | 157 | 388 | 337 | 3600 | 2050 | 428 | 120 | 341 | 432 |
| 27..... | 299 | 118 | 90 | 174 | 839 | 488 | 3410 | 2440 | 384 | 108 | 390 | 345 |
| 28..... | 165 | 120 | 94 | 174 | 460 | 720 | 3220 | 2730 | 345 | 112 | 154 | 315 |
| 29..... | 130 | 118 | 90 | 171 | 318 | 812 | 2910 | 2730 | 322 | 152 | 139 | 950 |
| 30..... | 122 | 116 | 98 | 160 | .... | 760 | 2840 | 2500 | 380 | 147 | 108 | 1330 |
| 31..... | 124 | .... | 103 | 165 | .... | 680 | .... | 2470 | .... | 143 | 103 | .... |
| Total | 3935 | 3465 | 3213 | 3979 | 6241 | 8763 | 61150 | 86590 | 33618 | 5893 | 3641 | 8583 |
| Mean. | 127 | 116 | 104 | 128 | 215 | 283 | 2038 | 2793 | 1121 | 190 | 117 | 286 |
| Max.. | 299 | 124 | 116 | 174 | 839 | 812 | 4020 | 3430 | 2880 | 356 | 310 | 1330 |
| Min.. | 103 | 103 | 87 | 88 | 132 | 154 | 597 | 2050 | 322 | 108 | 45 | 64 |
| Acre-ft. | 7800 | 6870 | 6370 | 7890 | 12380 | 17380 | 121300 | 171700 | 66680 | 11690 | 7220 | 17020 |

Total run-off for water year 1939-40=454,300 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

GREEN RIVER BASIN

GREEN RIVER NEAR LINWOOD, UTAH

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 29, T. 3 N., R. 21 E., 2 miles south of Wyoming-Utah line, and 5 miles south-east of Linwood. Henry's Fork enters $\frac{1}{4}$ mile downstream.

Drainage Area—14,300 square miles. Zero of gage is 5,844.64 feet above mean sea level.

Record Available—October, 1928, to September 30, 1940.

Maximum discharge observed during period 1928-40; 15,200 second feet, June 4, 1936. Gage height 10.11 feet.

Maximum Discharge—Year 1939; 5,380 second feet, May 14, 1939. Gage height 5.30 feet.

Maximum Discharge—Year 1940; 4,340 second feet, May 31, 1940. Gage height 4.65 feet.

Accuracy—Records considered good except those for periods of ice effect, November 11, 1938, to March 23, 1939, and December 13, 1939, to March 15, 1940, which were computed on basis of 3 and 2 discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

ELK RIVER AT CLARK, COLORADO

Location—Water stage recorder in Sec. 28, T. 9 N., R. 85 W., at Clark.

Drainage Area—206 square miles. Altitude, 7,300 feet above mean sea level.

Records Available—May 1, 1910, to September 30, 1922; April 23, 1930, to September 30, 1940.

Maximum daily discharge observed during period 1910-22, 1930-40; 4,470 second feet, June 6, 9, 1912.

Maximum Discharge—Year 1939; 1,860 second feet, May 19, 1939. Gage height 4.22 feet.

Maximum Discharge—Year 1940; 2,680 second feet, May 13, 1940. Gage height 4.63 feet.

Accuracy—Records considered excellent except for periods of ice effect, November 22 to December 3, 12-19, 25-31, 1938 (computed on basis of weather records), and those for period of missing gage heights April 1-17, 1938. Those for period of ice effect December 20, 1939, to March 6, 1940, computed by comparison with records for Yampa River at Steamboat Springs and Maybell, and weather records, and are fair.

Practically no diversions above station.

LITTLE SNAKE RIVER NEAR DIXON, WYOMING

Location—Water stage recorder in Sec. 6, T. 12 N., R. 90 W., 1 mile west of Dixon on road from Baggs to Dixon. Willow Creek enters Little Snake River $\frac{1}{8}$ mile below station.

Drainage Area—988 square miles. Zero of gage is 6,332.81 feet above mean sea level.

Records Available—1910 to 1923, March 15, 1938, to September 30, 1940.

Maximum Discharge—Year 1939; 3,290 second feet, May 2, 1939. Gage height 5.44 feet.

Maximum Discharge—Year 1940; 3,470 second feet, May 13, 1940. Gage height 5.58 feet.

Accuracy—Records considered excellent above 30 second feet; good below. Those for period of ice effect, November 7, 1938, to March 22, 1939, computed on basis of 3 discharge measurements and weather records, and for December 13-14, 25, 1939, to March 1, 1940, computed on basis of 2 measurements and weather records, and which are fair.

LITTLE SNAKE RIVER NEAR LILY, COLORADO

Location—Water stage recorder in Sec. 20, T. 7 N., R. 98 W., 6 miles north of Lily and 6 miles above mouth, at highway bridge.

Drainage Area—3,730 square miles.

Records Available—June to August, 1904; May 1, 1922, to September 30, 1940.

Maximum discharge observed during period 1904, 1922-40; 14,200 second feet, May 28, 1926. Gage height 10.5 feet.

Maximum Discharge—Year 1939; 3,670 second feet, May 3, 1939. Gage height 4.50 feet.

Maximum Discharge—Year 1940; 3,520 second feet, May 14, 1940. Gage height 4.43 feet.

Accuracy—Records considered good except those for period of ice effect, November 23, 1938, to March 26, 1939, computed on basis of 2 discharge measurements, and weather records, and those for ice period December 9, 1939, to March 21, 1940, computed on basis of two discharge measurements and weather records, and which are fair.

Diversions for irrigation above station.

SLATER FORK NEAR SLATER, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 21, T. 12 N., R. 89 W., $1\frac{1}{2}$ miles south of Slater and about 1 mile above mouth.

Drainage Area—161 square miles.

Records Available—May, 1910, to May, 1912; June, 1931, to September 30, 1940.

Maximum discharge observed during period 1910-12, 1931-40; 1,700 second feet, May 19, 1912.

Maximum Discharge—Year 1939; 421 second feet, May 3, 1939. Gage height 5.40 feet.

Maximum Discharge—Year 1940; 434 second feet, May 17, 1940. Gage height 5.42 feet.

Accuracy—Records considered good. Estimated records November 6, 1938, to March 19, 1939, and December 12, 1939, to March 16, 1940, on basis of records of Little Snake River near Dixon, Wyoming.

Diversions for irrigation above station.

WHITE RIVER NEAR MEEKER, COLORADO

Location—Water stage recorder in Sec. 30, T. 1 N., R. 93 W., 3½ miles east of Meeker, and 1 mile above mouth of Curtis Creek.

Drainage Area—762 square miles.

Records Available—May, 1901, to October, 1906, May, 1910, to September 30, 1940. Station maintained 2½ miles downstream prior to October, 1913.

Maximum daily discharge observed during period 1901-06, 1910-40; 6,070 second feet, June 16, 1921.

Maximum Discharge—Year 1939; 2,060 second feet, May 6, 1939. Gage height 3.18 feet.

Maximum Discharge—Year 1940; 2,740 second feet, May 13, 1940. Gage height 3.52 feet.

Accuracy—Records considered excellent except those for period of ice effect and missing gage heights, December 5, 1938, to March 19, 1939, computed on basis of 2 discharge measurements, weather records and records Roaring Fork at Glenwood Springs. Those for period of ice effect January 20-27, 29, February 1, 4, 18-20, 1939, computed on basis of weather reports, and are fair.

Diversions for irrigation above station.

WHITE RIVER NEAR WATSON, UTAH

Location—Water stage recorder in Sec. 2, T. 10 S., R. 24 E., Salt Lake Meridian, 10 miles northeast of Watson on highway to Vernal, Utah, and just below mouth of Evacuation Creek.

Drainage Area—4,020 square miles.

Records Available—April 1 to October 31, 1906; April 1, 1923, to September 30, 1940.

Maximum daily discharge observed during period 1906, 1923-1940; 8,160 second feet, July 15, 1929.

Maximum Discharge—Year 1939; 4,490 second feet, May 19, 1939. Gage height 5.67 feet.

Maximum Discharge—Year 1940; 2,270 second feet, May 14, 1940. Gage height 3.44 feet.

Accuracy—Records considered good except for ice effect, November 27, 28, December 17, 19, 23, 1938, to March, 1939 (computed on basis of 2 discharge measurements and weather records), and December 19, 20, 22, 1939, to March 10, 1940 (computed on basis of 1 discharge measurement and weather records), and which are fair.

Diversions for irrigation above station.

YAMPA RIVER AT STEAMBOAT SPRINGS, COLORADO

Location—Water stage recorder in Sec. 17, T. 6 N., R. 84 W., at First Street bridge in Steamboat Springs, and a quarter of a mile above Soda Creek.

Drainage Area—604 square miles. Zero of gage is 6,696.23 feet above mean sea level.

Records Available—May 3, 1904, to October 31, 1906; March 1, 1910, to September 30, 1940.

Maximum discharge observed during period 1904-06, 1910-40; 6,820 second feet, June 14, 1921. Gage height 7.08 feet.

Maximum Discharge—Year 1939; 2,960 second feet, May 19, 1939. Gage height 5.05 feet.

Maximum Discharge—Year 1940; 3,220 second feet, May 31, 1940. Gage height 4.94 feet.

Accuracy—Records considered excellent except those for period of ice effect November 24, 30; December 6, 12-19, 27, 1938; January 5, 22-28; February 2, 3, 12, 17-19, 20, 28 to March 3, 1939, computed on basis of discharge measurements and weather reports, and for August 15-23, 1939 (estimated), and those for period of ice effect December 28, 1939, January 7-8, 15, 16, 17, 25, February 17-20, 1940, computed on basis of discharge measurements and weather records, and which are fair.

Diversions for irrigation above station.

YAMPA RIVER NEAR MAYBELL, COLORADO

Location—Water stage recorder in Sec. 2, T. 6 N., R. 95 W., at highway bridge 3 miles east of Maybell.

Drainage Area—3,410 square miles. Altitude, 5,900 feet above mean sea level.

Records Available—April 24, 1916, to September 30, 1940.

Maximum discharge observed during period 1916-1940; 17,900 second feet, May 19, 1917. Gage height 10.4 feet.

Maximum Discharge—Year 1939; 7,860 second feet, May 7, 1939. Gage height 6.99 feet.

Maximum Discharge—Year 1940; 9,170 second feet, May 14, 1940. Gage height 7.64 feet.

Accuracy—Records considered excellent except those for ice effect period or missing gage heights November 24-30, December 13, 1938, to April 20, 1939, based on 2 discharge measurements, weather records, and partial gage heights, and are fair

Diversions for irrigation above station.

Discharge of Green River Near Linwood, Utah, for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|-------|
| 1.... | 743 | 1330 | 780 | 560 | 480 | 550 | 3240 | 1990 | 2770 | 1790 | 1450 | 586 |
| 2.... | 770 | 1340 | 720 | 550 | 470 | 610 | 3080 | 2310 | 3540 | 1780 | 1640 | 572 |
| 3.... | 779 | 1350 | 720 | 530 | 460 | 630 | 3050 | 3030 | 4700 | 1810 | 1540 | 565 |
| 4.... | 770 | 1390 | 730 | 510 | 492 | 620 | 3020 | 3650 | 4940 | 1950 | 1450 | 565 |
| 5.... | 995 | 1370 | 740 | 500 | 510 | 600 | 2920 | 4040 | 4620 | 2140 | 1420 | 545 |
| 6.... | 1220 | 1280 | 730 | 487 | 520 | 630 | 2860 | 4390 | 3970 | 2300 | 1360 | 565 |
| 7.... | 1340 | 1140 | 710 | 480 | 540 | 610 | 2790 | 4670 | 3410 | 2200 | 1240 | 586 |
| 8.... | 2060 | 1100 | 700 | 470 | 500 | 650 | 2680 | 4960 | 3080 | 2200 | 1140 | 586 |
| 9.... | 3870 | 923 | 680 | 450 | 480 | 680 | 2390 | 4820 | 3020 | 2120 | 1090 | 593 |
| 10.... | 3370 | 905 | 650 | 470 | 470 | 720 | 2140 | 4460 | 2950 | 2100 | 1050 | 654 |
| 11.... | 2170 | 850 | 620 | 500 | 470 | 780 | 2110 | 4190 | 2780 | 1980 | 1020 | 608 |
| 12.... | 1760 | 810 | 600 | 510 | 490 | 850 | 2110 | 4100 | 2630 | 1900 | 968 | 572 |
| 13.... | 1590 | 780 | 580 | 510 | 500 | 920 | 2110 | 4580 | 2540 | 1830 | 959 | 593 |
| 14.... | 1470 | 770 | 560 | 510 | 540 | 1050 | 2020 | 5180 | 2330 | 1810 | 905 | 586 |
| 15.... | 1410 | 760 | 570 | 520 | 570 | 1200 | 2020 | 4780 | 2080 | 1770 | 851 | 624 |
| 16.... | 1350 | 790 | 580 | 520 | 550 | 1430 | 2100 | 4240 | 1880 | 1700 | 815 | 725 |
| 17.... | 1530 | 800 | 560 | 500 | 560 | 1800 | 2100 | 3830 | 1810 | 1600 | 788 | 600 |
| 18.... | 1720 | 830 | 550 | 520 | 530 | 2100 | 2110 | 3710 | 1780 | 1580 | 743 | 572 |
| 19.... | 2050 | 840 | 540 | 540 | 510 | 2700 | 2120 | 3880 | 2020 | 1510 | 698 | 558 |
| 20.... | 2140 | 830 | 540 | 550 | 480 | 3100 | 2050 | 4310 | 2900 | 1420 | 680 | 572 |
| 21.... | 1940 | 790 | 560 | 500 | 520 | 3500 | 1870 | 4390 | 3150 | 1310 | 664 | 579 |
| 22.... | 1770 | 750 | 550 | 520 | 540 | 4100 | 1910 | 4390 | 3170 | 1250 | 656 | 579 |
| 23.... | 1700 | 710 | 540 | 520 | 540 | 4600 | 1990 | 4310 | 3170 | 1170 | 640 | 565 |
| 24.... | 1650 | 700 | 560 | 500 | 520 | 4770 | 2040 | 3970 | 2900 | 1120 | 632 | 565 |
| 25.... | 1530 | 710 | 560 | 480 | 500 | 4890 | 2220 | 3660 | 2630 | 1070 | 632 | 565 |
| 26.... | 1470 | 700 | 550 | 480 | 480 | 4780 | 2420 | 3420 | 2410 | 1050 | 624 | 565 |
| 27.... | 1450 | 710 | 510 | 500 | 480 | 5040 | 2550 | 3460 | 2180 | 1030 | 616 | 593 |
| 28.... | 1400 | 730 | 520 | 520 | 500 | 4870 | 2420 | 3490 | 1980 | 1030 | 608 | 656 |
| 29.... | 1370 | 780 | 530 | 530 | .... | 4360 | 2170 | 3310 | 1900 | 1040 | 600 | 600 |
| 30.... | 1350 | 800 | 540 | 530 | .... | 3880 | 1980 | 2870 | 1820 | 1090 | 624 | 586 |
| 31.... | 1320 | .... | 550 | 530 | .... | 3420 | .... | 2620 | .... | 1650 | 608 | .... |
| Total | 50057 | 27568 | 18830 | 15797 | 14202 | 70480 | 70590 | 121010 | 85170 | 50400 | 28711 | 17702 |
| Mean. | 1615 | 919 | 607 | 510 | 507 | 2274 | 2353 | 3904 | 2839 | 1626 | 926 | 590 |
| Max. | 3870 | 1390 | 780 | 560 | 570 | 5040 | 3240 | 5180 | 4940 | 2300 | 1640 | 725 |
| Min. | 743 | 700 | 510 | 450 | 460 | 550 | 1870 | 1990 | 1780 | 1030 | 600 | 558 |
| Acre-ft. | 99290 | 54680 | 37350 | 31330 | 28170 | 139800 | 140000 | 240000 | 168900 | 99970 | 56950 | 35110 |

Total run-off for water year 1938-39=1,132,000 acre-feet.

Discharge of Green River Near Linwood, Utah, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
| 1.... | 565 | 488 | 400 | 480 | 380 | 860 | 986 | 579 | 4170 | 995 | 380 | 334 |
| 2.... | 551 | 488 | 470 | 480 | 410 | 900 | 977 | 586 | 3750 | 923 | 380 | 329 |
| 3.... | 544 | 488 | 454 | 450 | 420 | 900 | 968 | 565 | 3390 | 923 | 380 | 329 |
| 4.... | 565 | 488 | 488 | 400 | 420 | 880 | 959 | 537 | 3260 | 914 | 385 | 316 |
| 5.... | 565 | 488 | 459 | 400 | 430 | 860 | 950 | 500 | 3360 | 923 | 375 | 312 |
| 6.... | 565 | 494 | 470 | 400 | 410 | 850 | 941 | 470 | 3410 | 842 | 365 | 304 |
| 7.... | 565 | 494 | 432 | 350 | 400 | 890 | 923 | 442 | 3220 | 788 | 360 | 296 |
| 8.... | 572 | 494 | 442 | 320 | 400 | 900 | 869 | 437 | 3170 | 743 | 365 | 296 |
| 9.... | 579 | 494 | 476 | 350 | 420 | 910 | 770 | 442 | 3140 | 689 | 370 | 296 |
| 10.... | 572 | 488 | 551 | 400 | 430 | 920 | 716 | 488 | 2760 | 632 | 370 | 304 |
| 11.... | 565 | 494 | 565 | 390 | 410 | 820 | 689 | 482 | 2340 | 579 | 370 | 304 |
| 12.... | 551 | 494 | 586 | 380 | 379 | 780 | 656 | 476 | 2060 | 558 | 370 | 320 |
| 13.... | 544 | 488 | 520 | 355 | 370 | 760 | 648 | 454 | 1870 | 530 | 365 | 352 |
| 14.... | 537 | 464 | 500 | 370 | 380 | 780 | 672 | 579 | 1640 | 500 | 360 | 329 |
| 15.... | 537 | 459 | 520 | 360 | 400 | 820 | 656 | 995 | 1430 | 482 | 356 | 312 |
| 16.... | 518 | 464 | 540 | 360 | 390 | 842 | 632 | 1380 | 1270 | 454 | 347 | 300 |
| 17.... | 512 | 470 | 530 | 380 | 360 | 941 | 632 | 1810 | 1250 | 432 | 338 | 292 |
| 18.... | 512 | 464 | 500 | 320 | 340 | 905 | 689 | 2010 | 1410 | 420 | 334 | 288 |
| 19.... | 512 | 380 | 460 | 300 | 350 | 896 | 752 | 2140 | 1660 | 405 | 334 | 288 |
| 20.... | 512 | 338 | 470 | 320 | 360 | 977 | 770 | 2220 | 1900 | 410 | 329 | 296 |
| 21.... | 512 | 320 | 450 | 330 | 340 | 959 | 743 | 2180 | 2010 | 442 | 320 | 288 |
| 22.... | 512 | 352 | 410 | 270 | 360 | 1050 | 734 | 1990 | 1970 | 448 | 320 | 288 |
| 23.... | 512 | 347 | 420 | 300 | 380 | 1190 | 707 | 2010 | 1820 | 442 | 312 | 288 |
| 24.... | 512 | 390 | 430 | 340 | 400 | 1220 | 734 | 1940 | 1760 | 432 | 312 | 288 |
| 25.... | 506 | 410 | 390 | 360 | 430 | 1220 | 716 | 1740 | 1740 | 410 | 316 | 288 |
| 26.... | 518 | 395 | 320 | 350 | 480 | 1140 | 648 | 1590 | 1670 | 400 | 320 | 292 |
| 27.... | 512 | 420 | 330 | 370 | 600 | 1150 | 632 | 1660 | 1560 | 395 | 316 | 292 |
| 28.... | 500 | 442 | 320 | 400 | 700 | 1190 | 648 | 2680 | 1380 | 385 | 316 | 316 |
| 29.... | 500 | 375 | 340 | 380 | 780 | 1180 | 608 | 3390 | 1210 | 380 | 324 | 410 |
| 30.... | 488 | 334 | 390 | 370 | .... | 1090 | 593 | 4120 | 1099 | 380 | 334 | 707 |
| 31.... | 488 | .... | 450 | 360 | .... | 1010 | .... | 4290 | 1090 | 380 | 334 | .... |
| Total | 16503 | 13204 | 14083 | 11395 | 12329 | 29790 | 22618 | 45182 | 66670 | 17636 | 10757 | 9654 |
| Mean. | 532 | 440 | 454 | 368 | 425 | 961 | 754 | 1457 | 2222 | 569 | 347 | 322 |
| Max. | 579 | 494 | 586 | 480 | 780 | 1220 | 986 | 4290 | 4170 | 995 | 385 | 707 |
| Min. | 488 | 320 | 320 | 270 | 340 | 760 | 593 | 437 | 1090 | 380 | 312 | 288 |
| Ac.-ft. | 32730 | 26190 | 27930 | 22600 | 24450 | 59090 | 44860 | 89620 | 132200 | 34980 | 21340 | 19150 |

Total run-off for water year 1939-40=535,100 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Elk River at Clark, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1.... | 54 | 74 | 115 | ..... | ..... | ..... | 160 | 1380 | 1540 | 400 | 170 | 45 |
| 2.... | 50 | 72 | 105 | ..... | ..... | ..... | 180 | 1380 | 1140 | 378 | 133 | 42 |
| 3.... | 54 | 69 | 101 | ..... | ..... | ..... | 210 | 1320 | 1050 | 364 | 117 | 38 |
| 4.... | 52 | 70 | 99 | ..... | ..... | ..... | 240 | 1250 | 1250 | 352 | 109 | 34 |
| 5.... | 59 | 69 | 125 | ..... | ..... | ..... | 270 | 1290 | 1340 | 336 | 99 | 41 |
| 6.... | 83 | 60 | 107 | ..... | ..... | ..... | 230 | 1260 | 1250 | 316 | 99 | 155 |
| 7.... | 74 | 81 | 93 | ..... | ..... | ..... | 220 | 948 | 1050 | 288 | 115 | 324 |
| 8.... | 79 | 85 | 89 | ..... | ..... | ..... | 240 | 868 | 941 | 273 | 99 | 230 |
| 9.... | 85 | 89 | 91 | ..... | ..... | ..... | 260 | 1000 | 894 | 252 | 87 | 145 |
| 10.... | 75 | 87 | 91 | ..... | ..... | ..... | 240 | 1130 | 764 | 242 | 81 | 113 |
| 11.... | 70 | 81 | 103 | ..... | ..... | ..... | 200 | 1080 | 764 | 233 | 77 | 147 |
| 12.... | 68 | 87 | 75 | ..... | ..... | ..... | 230 | 1050 | 816 | 227 | 74 | 164 |
| 13.... | 63 | 89 | 76 | ..... | ..... | ..... | 260 | 900 | 894 | 212 | 70 | 135 |
| 14.... | 62 | 105 | 79 | ..... | ..... | ..... | 270 | 1030 | 883 | 197 | 69 | 115 |
| 15.... | 60 | 117 | 90 | ..... | ..... | ..... | 270 | 1210 | 955 | 185 | 69 | 99 |
| 16.... | 59 | 123 | 104 | ..... | ..... | ..... | 260 | 1260 | 848 | 179 | 63 | 91 |
| 17.... | 87 | 109 | 118 | ..... | ..... | ..... | 255 | 1200 | 810 | 170 | 60 | 81 |
| 18.... | 85 | 111 | 118 | ..... | ..... | ..... | 248 | 1350 | 686 | 155 | 57 | 77 |
| 19.... | 72 | 115 | 115 | ..... | ..... | ..... | 239 | 1510 | 572 | 153 | 54 | 75 |
| 20.... | 68 | 123 | 107 | ..... | ..... | ..... | 239 | 1520 | 540 | 147 | 50 | 72 |
| 21.... | 70 | 123 | 109 | ..... | ..... | ..... | 360 | 1380 | 556 | 141 | 49 | 72 |
| 22.... | 66 | 102 | 109 | ..... | ..... | ..... | 618 | 1410 | 495 | 135 | 47 | 75 |
| 23.... | 62 | 109 | 109 | ..... | ..... | ..... | 718 | 1420 | 500 | 127 | 46 | 123 |
| 24.... | 60 | 106 | 109 | ..... | ..... | ..... | 666 | 1260 | 530 | 121 | 46 | 113 |
| 25.... | 63 | 115 | 108 | ..... | ..... | ..... | 572 | 1070 | 530 | 117 | 46 | 111 |
| 26.... | 63 | 99 | 109 | ..... | ..... | ..... | 654 | 934 | 500 | 115 | 46 | 115 |
| 27.... | 60 | 88 | 107 | ..... | ..... | ..... | 777 | 934 | 486 | 113 | 45 | 107 |
| 28.... | 57 | 99 | 105 | ..... | ..... | ..... | 983 | 997 | 464 | 115 | 47 | 95 |
| 29.... | 56 | 104 | 104 | ..... | ..... | ..... | 1130 | 1190 | 446 | 137 | 46 | 115 |
| 30.... | 57 | 114 | 105 | ..... | ..... | ..... | 1240 | 1360 | 418 | 141 | 47 | 95 |
| 31.... | 60 | ..... | 108 | ..... | ..... | ..... | ..... | 1420 | ..... | 139 | 46 | ..... |
| Total | 2033 | 2885 | 3183 | 2790 | 2380 | 3410 | 12439 | 37311 | 24012 | 6460 | 2263 | 3244 |
| Mean. | 65.6 | 96.2 | 103 | 90 | 85 | 110 | 415 | 1204 | 800 | 208 | 73.0 | 108 |
| Max. | 87 | 123 | 125 | ..... | ..... | ..... | 1240 | 1520 | 1540 | 400 | 170 | 324 |
| Min. | 50 | 60 | 75 | ..... | ..... | ..... | 160 | 868 | 418 | 113 | 45 | 34 |
| Acre-ft. | 4030 | 5720 | 6310 | 5530 | 4720 | 6760 | 24670 | 74010 | 47630 | 12810 | 4490 | 6430 |

Total run-off for water year 1938-39=203,100 acre-feet.

Discharge of Elk River at Clark, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|------|-------|------|-------|-------|-------|-------|------|-------|
| 1.... | 83 | 72 | 53 | 55 | 37 | 39 | 110 | 435 | 1700 | 360 | 106 | 61 |
| 2.... | 77 | 74 | 50 | 56 | 42 | 40 | 112 | 619 | 1750 | 394 | 83 | 58 |
| 3.... | 74 | 69 | 52 | 58 | 45 | 48 | 102 | 964 | 1740 | 384 | 78 | 54 |
| 4.... | 83 | 68 | 53 | 57 | 43 | 58 | 104 | 1230 | 1570 | 340 | 75 | 62 |
| 5.... | 102 | 69 | 56 | 54 | 41 | 65 | 108 | 1200 | 1480 | 308 | 71 | 51 |
| 6.... | 115 | 82 | 54 | 42 | 42 | 62 | 108 | 1160 | 1310 | 288 | 68 | 47 |
| 7.... | 115 | 75 | 57 | 30 | 38 | 58 | 104 | 1160 | 1070 | 272 | 68 | 46 |
| 8.... | 104 | 66 | 57 | 32 | 38 | 54 | 94 | 1290 | 1030 | 257 | 66 | 46 |
| 9.... | 108 | 75 | 53 | 32 | 40 | 54 | 94 | 1520 | 865 | 240 | 64 | 54 |
| 10.... | 100 | 48 | 53 | 39 | 42 | 56 | 86 | 1630 | 805 | 223 | 62 | 85 |
| 11.... | 94 | 57 | 54 | 32 | 43 | 56 | 82 | 1740 | 858 | 213 | 65 | 62 |
| 12.... | 90 | 65 | 57 | 31 | 37 | 57 | 74 | 1830 | 980 | 195 | 59 | 53 |
| 13.... | 83 | 59 | 54 | 30 | 34 | 64 | 86 | 2180 | 1060 | 188 | 57 | 51 |
| 14.... | 78 | 58 | 61 | 29 | 34 | 72 | 132 | 1590 | 1090 | 182 | 54 | 53 |
| 15.... | 78 | 54 | 59 | 28 | 37 | 65 | 195 | 1540 | 1060 | 173 | 52 | 57 |
| 16.... | 77 | 51 | 65 | 29 | 34 | 65 | 221 | 2000 | 1100 | 170 | 51 | 53 |
| 17.... | 75 | 44 | 58 | 34 | 30 | 59 | 221 | 1960 | 988 | 203 | 50 | 57 |
| 18.... | 74 | 48 | 59 | 30 | 31 | 56 | 268 | 1510 | 880 | 218 | 51 | 59 |
| 19.... | 71 | 46 | 57 | 27 | 32 | 56 | 364 | 1460 | 880 | 178 | 52 | 66 |
| 20.... | 68 | 50 | 60 | 32 | 34 | 56 | 475 | 1350 | 872 | 159 | 56 | 62 |
| 21.... | 65 | 54 | 64 | 33 | 32 | 57 | 552 | 1190 | 964 | 143 | 56 | 64 |
| 22.... | 65 | 52 | 56 | 28 | 33 | 61 | 569 | 1120 | 768 | 132 | 58 | 102 |
| 23.... | 64 | 52 | 62 | 35 | 33 | 71 | 569 | 1140 | 687 | 126 | 56 | 74 |
| 24.... | 64 | 51 | 56 | 40 | 32 | 77 | 752 | 1210 | 580 | 117 | 56 | 64 |
| 25.... | 64 | 52 | 56 | 38 | 31 | 78 | 850 | 1250 | 530 | 112 | 71 | 61 |
| 26.... | 74 | 56 | 57 | 38 | 31 | 80 | 925 | 1270 | 500 | 102 | 132 | 68 |
| 27.... | 75 | 58 | 56 | 42 | 33 | 82 | 940 | 1470 | 455 | 94 | 117 | 77 |
| 28.... | 64 | 51 | 45 | 45 | 31 | 78 | 715 | 1470 | 425 | 100 | 86 | 64 |
| 29.... | 75 | 50 | 47 | 38 | 37 | 72 | 536 | 1350 | 394 | 112 | 75 | 78 |
| 30.... | 58 | 50 | 50 | 33 | ..... | 75 | 425 | 1380 | 364 | 117 | 69 | 108 |
| 31.... | 66 | ..... | 53 | 35 | ..... | 88 | ..... | 1600 | ..... | 100 | 65 | ..... |
| Total | 2483 | 1756 | 1724 | 1162 | 1047 | 1959 | 9973 | 42818 | 28755 | 6200 | 2129 | 1897 |
| Mean. | 80.1 | 58.5 | 55.6 | 37.5 | 36.1 | 63.2 | 332 | 1381 | 958 | 200 | 68.7 | 63.2 |
| Max. | 115 | 82 | 65 | 58 | 45 | 88 | 940 | 2180 | 1750 | 394 | 132 | 108 |
| Min. | 58 | 44 | 45 | 27 | 30 | 39 | 74 | 435 | 364 | 94 | 50 | 46 |
| Acre-ft. | 4920 | 3480 | 3420 | 2300 | 2080 | 3890 | 19780 | 84930 | 57030 | 12300 | 4220 | 3760 |

Total run-off for water year 1939-40=202,100 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Little Snake River Near Dixon, Wyo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|-------|-------|--------|-------|-------|-------|-------|
| 1.... | 15 | 83 | 89 | 84 | 105 | 108 | 448 | 2920 | 1750 | 40 | 14 | 7.2 |
| 2.... | 16 | 109 | 82 | 84 | 100 | 112 | 516 | 2890 | 1500 | 35 | 21 | 5.6 |
| 3.... | 16 | 105 | 82 | 83 | 100 | 114 | 652 | 2620 | 1270 | 28 | 14 | 3.6 |
| 4.... | 18 | 98 | 84 | 82 | 105 | 111 | 692 | 2580 | 1200 | 24 | 9.5 | 2.2 |
| 5.... | 22 | 103 | 86 | 80 | 100 | 110 | 825 | 2620 | 1240 | 23 | 7.6 | 2.0 |
| 6.... | 27 | 70 | 87 | 79 | 96 | 111 | 594 | 2750 | 1150 | 19 | 7.2 | 3.4 |
| 7.... | 36 | 80 | 87 | 77 | 92 | 113 | 555 | 2170 | 956 | 18 | 6.4 | 1.6 |
| 8.... | 43 | 80 | 86 | 76 | 100 | 114 | 484 | 1850 | 840 | 25 | 6.8 | 6.8 |
| 9.... | 46 | 80 | 85 | 77 | 105 | 116 | 588 | 1970 | 762 | 23 | 9.0 | 3.0 |
| 10.... | 49 | 78 | 82 | 80 | 107 | 119 | 510 | 2150 | 727 | 19 | 7.6 | 17 |
| 11.... | 48 | 76 | 80 | 83 | 108 | 122 | 448 | 2050 | 640 | 12 | 6.4 | 11 |
| 12.... | 44 | 74 | 78 | 84 | 108 | 124 | 436 | 2080 | 588 | 11 | 5.2 | 10 |
| 13.... | 40 | 73 | 76 | 84 | 105 | 128 | 510 | 1750 | 529 | 9.5 | 4.4 | 16 |
| 14.... | 37 | 71 | 73 | 85 | 100 | 133 | 748 | 1790 | 478 | 8.0 | 4.4 | 14 |
| 15.... | 43 | 70 | 74 | 86 | 100 | 137 | 783 | 1960 | 419 | 6.4 | 5.6 | 12 |
| 16.... | 42 | 72 | 76 | 84 | 98 | 142 | 679 | 2150 | 365 | 6.0 | 6.0 | 10 |
| 17.... | 51 | 74 | 78 | 84 | 98 | 148 | 510 | 2170 | 298 | 5.6 | 3.6 | 10 |
| 18.... | 73 | 76 | 76 | 88 | 96 | 158 | 460 | 2210 | 248 | 5.2 | 1.8 | 9.5 |
| 19.... | 81 | 80 | 74 | 93 | 98 | 185 | 607 | 2330 | 230 | 5.2 | 1.3 | 9.0 |
| 20.... | 70 | 85 | 77 | 92 | 100 | 250 | 594 | 2470 | 195 | 5.2 | 1.0 | 8.5 |
| 21.... | 66 | 78 | 81 | 91 | 98 | 300 | 720 | 2220 | 192 | 6.0 | 0.9 | 8.0 |
| 22.... | 73 | 72 | 79 | 91 | 98 | 380 | 1140 | 2110 | 208 | 6.0 | 0.8 | 7.2 |
| 23.... | 75 | 72 | 78 | 89 | 94 | 466 | 1590 | 2110 | 157 | 6.0 | 0.7 | 1.6 |
| 24.... | 68 | 74 | 80 | 85 | 92 | 555 | 1370 | 1980 | 121 | 5.2 | 0.6 | 1.6 |
| 25.... | 63 | 77 | 81 | 84 | 90 | 594 | 1190 | 2040 | 112 | 3.4 | 0.6 | 11 |
| 26.... | 65 | 76 | 79 | 86 | 94 | 672 | 1120 | 1390 | 90 | 4.0 | 0.6 | 1.2 |
| 27.... | 68 | 77 | 76 | 91 | 98 | 741 | 1280 | 1240 | 73 | 4.4 | 0.6 | 1.4 |
| 28.... | 69 | 80 | 74 | 95 | 102 | 535 | 1710 | 1220 | 57 | 9.5 | 1.4 | 1.4 |
| 29.... | 66 | 84 | 75 | 100 | .... | 466 | 2170 | 1290 | 48 | 7.6 | 2.6 | 1.4 |
| 30.... | 65 | 89 | 78 | 102 | .... | 392 | 2510 | 1440 | 42 | 5.2 | 2.0 | 1.7 |
| 31.... | 68 | .... | 81 | 100 | .... | 380 | .... | 1580 | .... | 11 | 2.8 | .... |
| Total | 1563 | 2416 | 2474 | 2679 | 2787 | 8136 | 26439 | 64100 | 16485 | 396.4 | 156.4 | 394.2 |
| Mean. | 50.4 | 80.5 | 79.8 | 86.4 | 99.5 | 262 | 881 | 2068 | 550 | 12.8 | 5.05 | 13.1 |
| Max.. | 81 | 109 | 89 | 102 | 108 | 741 | 2510 | 2920 | 1750 | 40 | 21 | 6.8 |
| Min.. | 15 | 70 | 73 | 76 | 90 | 108 | 436 | 1220 | 42 | 3.4 | 0.6 | 2.0 |
| Acre-ft. | 3100 | 4790 | 4910 | 5310 | 5530 | 16140 | 52440 | 127100 | 32700 | 786 | 310 | 782 |

Total run-off for water year 1938-39=253,900 acre-feet.

Discharge of Little Snake River Near Dixon, Wyoming, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|--------|------|------|------|------|------|-------|--------|-------|-------|-------|-------|
| 1.... | 14 | 62 | 56 | 64 | 74 | 160 | 408 | 878 | 1970 | 23 | 3.8 | 4.0 |
| 2.... | 12 | 70 | 57 | 61 | 77 | 148 | 442 | 1060 | 1910 | 28 | 3.6 | 3.6 |
| 3.... | 9.5 | 72 | 56 | 60 | 74 | 134 | 289 | 1650 | 1850 | 38 | 3.4 | 3.6 |
| 4.... | 11 | 69 | 55 | 60 | 74 | 119 | 284 | 2550 | 1660 | 32 | 3.0 | 2.8 |
| 5.... | 12 | 68 | 60 | 62 | 70 | 114 | 264 | 2640 | 1500 | 24 | 3.0 | 2.8 |
| 6.... | 14 | 69 | 65 | 60 | 64 | 114 | 316 | 2470 | 1370 | 19 | 3.8 | 2.6 |
| 7.... | 15 | 72 | 62 | 54 | 68 | 96 | 284 | 2340 | 1150 | 16 | 3.8 | 3.0 |
| 8.... | 15 | 70 | 66 | 50 | 66 | 105 | 240 | 2370 | 1020 | 14 | 3.4 | 3.0 |
| 9.... | 14 | 68 | 60 | 56 | 70 | 101 | 252 | 2620 | 840 | 12 | 3.0 | 4.4 |
| 10.... | 23 | 75 | 60 | 60 | 70 | 94 | 276 | 2720 | 741 | 10 | 2.6 | 5.2 |
| 11.... | 31 | 62 | 66 | 64 | 74 | 96 | 244 | 2860 | 685 | 9.5 | 2.8 | 6.0 |
| 12.... | 28 | 50 | 63 | 62 | 74 | 92 | 192 | 2930 | 659 | 9.5 | 2.0 | 7.2 |
| 13.... | 26 | 44 | 59 | 58 | 65 | 87 | 219 | 3320 | 626 | 10 | 2.2 | 6.8 |
| 14.... | 24 | 50 | 55 | 54 | 62 | 78 | 335 | 2920 | 581 | 10 | 2.6 | 7.2 |
| 15.... | 22 | 50 | 68 | 50 | 66 | 80 | 548 | 2690 | 529 | 9.0 | 2.8 | 9.5 |
| 16.... | 21 | 52 | 69 | 52 | 62 | 89 | 652 | 2760 | 484 | 9.5 | 2.6 | 9.0 |
| 17.... | 23 | 44 | 66 | 54 | 60 | 107 | 548 | 3060 | 414 | 9.0 | 2.0 | 11 |
| 18.... | 27 | 47 | 68 | 52 | 66 | 89 | 568 | 2620 | 330 | 9.5 | 1.8 | 10 |
| 19.... | 43 | 57 | 72 | 46 | 74 | 96 | 755 | 2380 | 268 | 9.5 | 1.8 | 10 |
| 20.... | 44 | 55 | 58 | 47 | 76 | 105 | 964 | 2360 | 222 | 9.0 | 2.0 | 14 |
| 21.... | 47 | 55 | 61 | 48 | 71 | 96 | 1110 | 2150 | 198 | 7.6 | 2.6 | 15 |
| 22.... | 48 | 57 | 57 | 46 | 76 | 112 | 1160 | 2020 | 192 | 7.2 | 3.0 | 19 |
| 23.... | 44 | 55 | 52 | 50 | 84 | 134 | 916 | 1910 | 163 | 6.4 | 3.4 | 24 |
| 24.... | 46 | 56 | 54 | 54 | 88 | 169 | 1260 | 1870 | 116 | 6.4 | 4.8 | 29 |
| 25.... | 47 | 57 | 52 | 60 | 100 | 212 | 1780 | 1930 | 85 | 6.8 | 4.0 | 21 |
| 26.... | 60 | 62 | 50 | 63 | 110 | 248 | 1800 | 1890 | 58 | 5.6 | 5.2 | 22 |
| 27.... | 68 | 60 | 48 | 67 | 120 | 316 | 2040 | 2070 | 43 | 4.8 | 12 | 11 |
| 28.... | 72 | 52 | 46 | 70 | 130 | 284 | 1650 | 2020 | 37 | 4.4 | 12 | 15 |
| 29.... | 62 | 56 | 48 | 74 | 140 | 244 | 1480 | 2020 | 33 | 3.4 | 9.5 | 12 |
| 30.... | 65 | 58 | 55 | 72 | .... | 226 | 1070 | 1850 | 26 | 3.2 | 7.2 | 18 |
| 31.... | 60 | .... | 60 | 70 | .... | 289 | .... | 1920 | .... | 3.6 | 5.2 | .... |
| Total | 1047.5 | 1774 | 1824 | 1800 | 2305 | 4434 | 22346 | 70848 | 19760 | 369.9 | 124.9 | 301.7 |
| Mean. | 33.8 | 59.1 | 58.8 | 58.1 | 79.5 | 143 | 745 | 2285 | 659 | 11.9 | 4.03 | 10.1 |
| Max.. | 72 | 75 | 72 | 74 | 140 | 316 | 2040 | 3320 | 1970 | 38 | 12 | 29 |
| Min.. | 9.5 | 44 | 46 | 46 | 60 | 78 | 192 | 878 | 26 | 3.2 | 1.8 | 2.6 |
| Acre-ft. | 2080 | 3520 | 3620 | 3570 | 4570 | 8790 | 44320 | 140500 | 39190 | 734 | 248 | 598 |

Total run-off for water year 1939-40=251,700 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Little Snake River Near Lily, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|------|------|-------|-------|--------|-------|-------|------|-------|
| 1.... | 27 | 92 | 210 | 117 | 123 | 150 | 657 | 2660 | 1470 | 38 | 0.6 | 0 |
| 2.... | 27 | 92 | 220 | 114 | 121 | 160 | 550 | 2780 | 1630 | 24 | 0 | 0 |
| 3.... | 24 | 98 | 235 | 111 | 123 | 168 | 556 | 3260 | 1710 | 16 | 0 | 0 |
| 4.... | 22 | 100 | 240 | 109 | 125 | 168 | 629 | 2910 | 1470 | 14 | 0 | 0 |
| 5.... | 25 | 100 | 235 | 102 | 127 | 200 | 713 | 2830 | 1240 | 14 | 0 | 0 |
| 6.... | 174 | 104 | 223 | 104 | 130 | 190 | 742 | 2800 | 1110 | 10 | 0 | 0 |
| 7.... | 80 | 107 | 220 | 110 | 130 | 185 | 907 | 2800 | 1080 | 10 | 0 | 0 |
| 8.... | 291 | 132 | 223 | 112 | 129 | 185 | 713 | 2430 | 1040 | 10 | 0 | 0.6 |
| 9.... | 170 | 325 | 230 | 113 | 128 | 190 | 685 | 2020 | 961 | 8.5 | 0 | 0 |
| 10.... | 95 | 330 | 235 | 110 | 125 | 192 | 622 | 1990 | 863 | 7.5 | 0 | 23 |
| 11.... | 75 | 208 | 230 | 106 | 127 | 198 | 699 | 2140 | 788 | 7.0 | 0 | 34 |
| 12.... | 75 | 189 | 200 | 105 | 130 | 200 | 629 | 2190 | 750 | 5.0 | 0 | 14 |
| 13.... | 70 | 85 | 180 | 102 | 134 | 205 | 568 | 2090 | 671 | 3.8 | 0 | 8.0 |
| 14.... | 62 | 140 | 170 | 100 | 138 | 206 | 550 | 2090 | 608 | 3.0 | 0 | 72 |
| 15.... | 62 | 246 | 165 | 98 | 145 | 220 | 650 | 1820 | 550 | 1.8 | 0 | 5.0 |
| 16.... | 62 | 254 | 163 | 100 | 148 | 244 | 961 | 1920 | 491 | 1.0 | 0 | 2.6 |
| 17.... | 62 | 189 | 164 | 104 | 146 | 280 | 1420 | 2120 | 439 | 0.8 | 0 | 1.4 |
| 18.... | 98 | 189 | 162 | 110 | 143 | 315 | 846 | 2240 | 411 | 0.6 | 0 | 1.0 |
| 19.... | 72 | 277 | 160 | 112 | 140 | 490 | 706 | 2190 | 350 | 0.3 | 0 | 0.9 |
| 20.... | 107 | 286 | 155 | 112 | 140 | 800 | 615 | 2310 | 295 | 0 | 0 | 0.6 |
| 21.... | 129 | 246 | 154 | 111 | 147 | 1100 | 706 | 2500 | 272 | 0 | 0 | 0.6 |
| 22.... | 118 | 241 | 152 | 110 | 150 | 1270 | 692 | 2460 | 229 | 0 | 0 | 0.4 |
| 23.... | 114 | 200 | 150 | 108 | 152 | 1200 | 820 | 2160 | 185 | 0 | 0 | 0.6 |
| 24.... | 114 | 180 | 130 | 101 | 150 | 1100 | 1410 | 2140 | 182 | 0 | 0 | 0.9 |
| 25.... | 111 | 170 | 119 | 103 | 148 | 1050 | 1510 | 2120 | 170 | 0 | 0 | 0.7 |
| 26.... | 107 | 165 | 118 | 109 | 142 | 1020 | 1320 | 1960 | 132 | 0 | 0 | 0.7 |
| 27.... | 107 | 170 | 116 | 113 | 140 | 1040 | 1140 | 1720 | 98 | 0 | 0 | 0.6 |
| 28.... | 107 | 180 | 114 | 117 | 142 | 1170 | 1250 | 1500 | 70 | 0 | 0 | 0.8 |
| 29.... | 100 | 197 | 110 | 120 | .... | 1280 | 1590 | 1350 | 58 | 0 | 0 | 0.9 |
| 30.... | 98 | 205 | 112 | 120 | .... | 907 | 2200 | 1290 | 48 | 0 | 0 | 0.8 |
| 31.... | 95 | .... | 116 | 118 | .... | 788 | .... | 1300 | .... | 0.8 | 0 | .... |
| Total | 2880 | 5497 | 5411 | 3381 | 3823 | 16871 | 27056 | 68100 | 19371 | 176.1 | 0.6 | 170.1 |
| Mean. | 92.9 | 183 | 175 | 109 | 137 | 544 | 902 | 2197 | 646 | 5.68 | 0.02 | 5.67 |
| Max. | 291 | 330 | 240 | 120 | 152 | 1280 | 2200 | 3260 | 1710 | 38 | 0.6 | 72 |
| Min. | 22 | 85 | 110 | 98 | 121 | 150 | 550 | 1290 | 48 | 0 | 0 | 0 |
| Acre-ft. | 5710 | 10900 | 10730 | 6710 | 7580 | 33460 | 53660 | 135100 | 38420 | 349 | 1 | 337 |

Total run-off for water year 1938-39=302,957 acre feet.

Discharge of Little Snake River Near Lily, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|--------|------|------|------|------|-------|-------|--------|-------|-------|-------|-------|
| 1.... | 0.2 | 55 | 65 | 31 | 35 | 94 | 340 | 1500 | 1510 | 40 | 0 | 0 |
| 2.... | 0.2 | 46 | 52 | 34 | 40 | 80 | 405 | 1140 | 1720 | 32 | 0 | 0 |
| 3.... | 0.2 | 46 | 55 | 35 | 44 | 90 | 550 | 961 | 1670 | 24 | 0 | 0 |
| 4.... | 0.7 | 44 | 68. | 32 | 44 | 74 | 601 | 1220 | 1560 | 23 | 0 | 0 |
| 5.... | 1.5 | 48 | 40 | 30 | 39 | 90 | 562 | 2260 | 1740 | 18 | 0 | 0 |
| 6.... | 151 | 55 | 34 | 24 | 32 | 80 | 538 | 2730 | 1600 | 15 | 0 | 0 |
| 7.... | 140 | 55 | 38 | 20 | 37 | 86 | 445 | 2540 | 1430 | 12 | 0 | 0 |
| 8.... | 80 | 52 | 50 | 22 | 34 | 94 | 451 | 2320 | 1310 | 12 | 0 | 0 |
| 9.... | 70 | 60 | 50 | 29 | 31 | 80 | 479 | 2280 | 1160 | 10 | 0 | 2.4 |
| 10.... | 48 | 52 | 49 | 28 | 40 | 86 | 422 | 2490 | 1050 | 9.0 | 0 | 4.8 |
| 11.... | 40 | 55 | 52 | 22 | 35 | 78 | 388 | 2720 | 889 | 7.5 | 0 | 0 |
| 12.... | 132 | 55 | 40 | 26 | 31 | 70 | 411 | 2890 | 780 | 7.5 | 0 | 0 |
| 13.... | 58 | 55 | 32 | 17 | 29 | 64 | 416 | 2920 | 713 | 5.5 | 0 | 0 |
| 14.... | 50 | 58 | 33 | 18 | 36 | 78 | 350 | 3100 | 671 | 3.8 | 0 | 0 |
| 15.... | 42 | 48 | 35 | 16 | 35 | 100 | 320 | 3070 | 643 | 3.0 | 0 | 0 |
| 16.... | 30 | 46 | 38 | 21 | 33 | 140 | 439 | 2640 | 608 | 1.4 | 0 | 0 |
| 17.... | 24 | 23 | 41 | 24 | 26 | 160 | 678 | 2680 | 562 | 3.4 | 0 | 0 |
| 18.... | 22 | 20 | 30 | 12 | 32 | 135 | 772 | 2920 | 532 | 1.4 | 0 | 0 |
| 19.... | 23 | 28 | 25 | 9 | 40 | 190 | 706 | 2860 | 491 | 1.0 | 0 | 0 |
| 20.... | 23 | 44 | 35 | 12 | 45 | 240 | 706 | 2400 | 422 | 0.8 | 0 | 16 |
| 21.... | 22 | 52 | 30 | 14 | 35 | 300 | 872 | 2250 | 366 | 0.6 | 0 | 68 |
| 22.... | 24 | 48 | 21 | 9 | 52 | 366 | 1140 | 2200 | 320 | 0.6 | 0.3 | 72 |
| 23.... | 24 | 50 | 22 | 15 | 60 | 383 | 1290 | 2100 | 282 | 0.5 | 0.1 | 9.0 |
| 24.... | 25 | 40 | 26 | 16 | 54 | 394 | 1260 | 1970 | 254 | 0.3 | 0.2 | 5.0 |
| 25.... | 26 | 46 | 21 | 13 | 64 | 445 | 1150 | 1880 | 233 | 0.2 | 4.1 | 4.6 |
| 26.... | 44 | 55 | 18 | 20 | 82 | 468 | 1740 | 1860 | 174 | 0 | 118 | 4.6 |
| 27.... | 34 | 52 | 20 | 23 | 72 | 462 | 2090 | 1860 | 132 | 0 | 0.7 | 4.2 |
| 28.... | 32 | 52 | 15 | 29 | 105 | 508 | 2100 | 1880 | 85 | 0 | 0.1 | 5.5 |
| 29.... | 38 | 46 | 17 | 31 | 100 | 562 | 1880 | 1930 | 60 | 0 | 0 | 248 |
| 30.... | 48 | 24 | 21 | 23 | .... | 550 | 1740 | 1690 | 52 | 0 | 0 | 433 |
| 31.... | 52 | .... | 26 | 29 | .... | 422 | .... | 1620 | .... | 0 | 0 | .... |
| Total | 1318.3 | 1410 | 1099 | 684 | 1342 | 6969 | 25241 | 68881 | 23019 | 232.5 | 123.5 | 877.1 |
| Mean. | 42.5 | 47.0 | 35.5 | 22.1 | 46.3 | 225 | 841 | 2222 | 767 | 7.50 | 3.98 | 29.2 |
| Max. | 151 | 60 | 68 | 35 | 105 | 562 | 2100 | 3100 | 1740 | 40 | 118 | 433 |
| Min. | 0.2 | 20 | 15 | 9 | 26 | 64 | 320 | 961 | 52 | 0 | 0 | 0 |
| Acre-ft. | 2610 | 2800 | 2180 | 1360 | 2660 | 13820 | 50060 | 136600 | 45660 | 461 | 245 | 1740 |

Total run-off for water year 1939-40=260,200 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Slater Fork Near Slater, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|------|-------|-------|-------|
| 1..... | 13 | 19 | 22 | 21 | 22 | 25 | 47 | 322 | 244 | 15 | 8.6 | 5.4 |
| 2..... | 13 | 23 | 21 | 20 | 21 | 26 | 55 | 341 | 201 | 14 | 9.2 | 3.3 |
| 3..... | 13 | 20 | 20 | 20 | 22 | 26 | 72 | 334 | 179 | 13 | 7.6 | 2.0 |
| 4..... | 13 | 21 | 20 | 20 | 23 | 26 | 86 | 312 | 188 | 9.4 | 6.4 | 1.9 |
| 5..... | 15 | 19 | 21 | 20 | 22 | 25 | 55 | 324 | 195 | 7.8 | 5.0 | 6.8 |
| 6..... | 18 | 13 | 21 | 19 | 22 | 26 | 66 | 331 | 172 | 7.2 | 3.6 | 1.6 |
| 7..... | 18 | 18 | 21 | 18 | 22 | 26 | 61 | 242 | 137 | 4.9 | 5.3 | 2.9 |
| 8..... | 18 | 18 | 21 | 18 | 22 | 26 | 59 | 223 | 117 | 5.0 | 5.7 | 2.5 |
| 9..... | 20 | 18 | 20 | 19 | 23 | 27 | 82 | 245 | 112 | 5.0 | 5.9 | 1.6 |
| 10..... | 19 | 17 | 20 | 19 | 24 | 27 | 68 | 258 | 105 | 3.4 | 4.3 | 1.4 |
| 11..... | 18 | 17 | 19 | 20 | 24 | 28 | 60 | 245 | 94 | 3.7 | 3.8 | 1.2 |
| 12..... | 17 | 17 | 19 | 20 | 24 | 28 | 62 | 250 | 95 | 1.2 | 2.5 | 2.4 |
| 13..... | 18 | 16 | 18 | 20 | 23 | 29 | 87 | 202 | 91 | 1.4 | 1.8 | 2.1 |
| 14..... | 18 | 16 | 17 | 20 | 22 | 30 | 121 | 209 | 92 | 1.4 | 1.5 | 1.6 |
| 15..... | 17 | 16 | 18 | 21 | 22 | 30 | 104 | 228 | 86 | 3.6 | 1.3 | 1.4 |
| 16..... | 17 | 17 | 19 | 20 | 22 | 31 | 89 | 234 | 75 | 3.8 | 2.1 | 1.2 |
| 17..... | 20 | 17 | 19 | 21 | 22 | 32 | 67 | 248 | 67 | 3.7 | 3.4 | 1.1 |
| 18..... | 23 | 18 | 18 | 21 | 22 | 30 | 63 | 258 | 57 | 3.4 | 2.9 | 9.8 |
| 19..... | 22 | 18 | 18 | 22 | 22 | 38 | 80 | 298 | 50 | 3.2 | 2.6 | 9.2 |
| 20..... | 20 | 20 | 19 | 22 | 23 | 40 | 86 | 297 | 47 | 2.5 | 3.3 | 8.7 |
| 21..... | 23 | 18 | 20 | 22 | 24 | 41 | 107 | 250 | 48 | 1.8 | 3.8 | 8.6 |
| 22..... | 23 | 17 | 19 | 22 | 23 | 51 | 197 | 248 | 51 | 1.8 | 3.7 | 8.8 |
| 23..... | 21 | 17 | 18 | 21 | 23 | 56 | 254 | 251 | 38 | 3.7 | 3.7 | 9.0 |
| 24..... | 19 | 18 | 19 | 20 | 22 | 68 | 238 | 231 | 33 | 3.4 | 4.1 | 1.0 |
| 25..... | 19 | 19 | 20 | 20 | 23 | 64 | 189 | 197 | 33 | 3.4 | 4.3 | 1.0 |
| 26..... | 19 | 18 | 19 | 20 | 23 | 68 | 187 | 173 | 29 | 4.6 | 3.7 | 1.4 |
| 27..... | 18 | 19 | 18 | 21 | 24 | 71 | 213 | 167 | 24 | 4.7 | 6.2 | 1.3 |
| 28..... | 17 | 20 | 18 | 21 | 25 | 57 | 248 | 174 | 22 | 5.6 | 6.4 | 1.2 |
| 29..... | 16 | 21 | 18 | 22 | .... | 52 | 272 | 200 | 18 | 2.3 | 7.2 | 1.2 |
| 30..... | 16 | 22 | 19 | 23 | .... | 46 | 296 | 230 | 16 | 7.0 | 8.6 | 1.2 |
| 31..... | 16 | .... | 20 | 22 | .... | 47 | .... | 245 | .... | 8.0 | 7.6 | .... |
| Total | 557 | 547 | 599 | 633 | 636 | 1197 | 3671 | 7767 | 2716 | 158.9 | 146.1 | 366.5 |
| Mean... | 18 | 18.2 | 19.3 | 20.4 | 22.7 | 38.6 | 122 | 251 | 90.5 | 5.13 | 4.71 | 12.2 |
| Max... | 23 | 23 | 22 | 23 | 25 | 71 | 296 | 341 | 244 | 15 | 9.2 | 2.9 |
| Min... | 13 | 13 | 17 | 18 | 21 | 25 | 47 | 167 | 16 | 1.2 | 1.3 | 1.9 |
| Acre-ft. | 1100 | 1080 | 1190 | 1260 | 1260 | 2370 | 7280 | 15410 | 5390 | 315 | 290 | 727 |

Total run-off for water year 1938-39=37,672 acre-feet.

Discharge of Slater Fork Near Slater, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|------|-------|------|------|------|-------|--------|-------|------|-------|
| 1..... | 11 | 14 | 12 | 13 | 15 | 29 | 46 | 132 | 267 | 9.6 | 0.8 | 3.2 |
| 2..... | 10 | 14 | 11 | 13 | 16 | 27 | 45 | 182 | 259 | 15 | 0.5 | 2.6 |
| 3..... | 9.8 | 13 | 10 | 12 | 15 | 25 | 34 | 265 | 254 | 17 | 0.9 | 2.1 |
| 4..... | 11 | 13 | 10 | 13 | 14 | 23 | 33 | 337 | 236 | 16 | 1.2 | 1.7 |
| 5..... | 14 | 13 | 10 | 12 | 13 | 22 | 34 | 345 | 218 | 16 | 1.8 | 1.5 |
| 6..... | 14 | 14 | 10 | 12 | 13 | 20 | 40 | 345 | 195 | 16 | 1.1 | 1.4 |
| 7..... | 15 | 14 | 11 | 11 | 13 | 18 | 36 | 332 | 167 | 14 | 2.3 | 1.4 |
| 8..... | 15 | 14 | 12 | 10 | 14 | 19 | 33 | 302 | 140 | 11 | 1.8 | 2.4 |
| 9..... | 17 | 14 | 13 | 12 | 14 | 18 | 38 | 306 | 127 | 9.4 | 1.8 | 2.1 |
| 10..... | 17 | 11 | 12 | 13 | 14 | 17 | 42 | 297 | 110 | 8.1 | 1.2 | 7.8 |
| 11..... | 17 | 11 | 13 | 14 | 14 | 17 | 35 | 301 | 104 | 7.4 | 1.4 | 4.5 |
| 12..... | 16 | 11 | 11 | 14 | 15 | 17 | 30 | 346 | 105 | 6.8 | 1.6 | 4.1 |
| 13..... | 16 | 12 | 10 | 13 | 14 | 16 | 38 | 367 | 112 | 6.0 | 1.8 | 7.5 |
| 14..... | 16 | 12 | 10 | 12 | 12 | 16 | 59 | 376 | 109 | 4.3 | 1.8 | 1.2 |
| 15..... | 16 | 11 | 11 | 11 | 13 | 15 | 76 | 320 | 106 | 4.2 | 2.0 | 8.1 |
| 16..... | 16 | 9.4 | 12 | 11 | 12 | 17 | 84 | 361 | 98 | 4.1 | 2.3 | 6.9 |
| 17..... | 16 | 8.4 | 13 | 11 | 12 | 19 | 68 | 379 | 86 | 4.9 | 0.5 | 5.6 |
| 18..... | 16 | 8.4 | 12 | 10 | 12 | 17 | 89 | 310 | 73 | 7.8 | 0.7 | 6.2 |
| 19..... | 15 | 8.4 | 12 | 9.4 | 13 | 18 | 139 | 270 | 62 | 6.6 | 1.4 | 1.2 |
| 20..... | 15 | 8.4 | 13 | 9.6 | 14 | 19 | 180 | 262 | 54 | 5.4 | 1.2 | 1.0 |
| 21..... | 14 | 9.2 | 12 | 9.8 | 13 | 19 | 209 | 248 | 50 | 4.6 | 1.9 | 9.8 |
| 22..... | 14 | 9.2 | 13 | 9.7 | 15 | 19 | 196 | 231 | 47 | 4.0 | 1.7 | 1.1 |
| 23..... | 13 | 9.0 | 11 | 10 | 16 | 21 | 168 | 206 | 40 | 3.2 | 1.6 | 1.3 |
| 24..... | 13 | 8.7 | 11 | 11 | 18 | 24 | 251 | 223 | 32 | 3.3 | 2.1 | 1.5 |
| 25..... | 12 | 7.8 | 10 | 12 | 20 | 26 | 318 | 228 | 27 | 2.4 | 3.3 | 1.3 |
| 26..... | 14 | 8.7 | 10 | 13 | 22 | 30 | 291 | 254 | 21 | 2.1 | 6.2 | 1.4 |
| 27..... | 14 | 9.0 | 10 | 14 | 24 | 35 | 309 | 295 | 15 | 1.7 | 8.7 | 1.6 |
| 28..... | 13 | 9.6 | 10 | 15 | 27 | 32 | 238 | 294 | 15 | 0.9 | 6.4 | 1.5 |
| 29..... | 13 | 8.8 | 10 | 15 | 28 | 26 | 211 | 280 | 10 | 0.9 | 4.9 | 2.2 |
| 30..... | 12 | 8.2 | 11 | 15 | .... | 26 | 150 | 267 | 8.2 | 1.1 | 4.2 | 3.5 |
| 31..... | 13 | .... | 12 | 14 | .... | 37 | .... | 266 | .... | 1.8 | 3.8 | .... |
| Total | 437.8 | 322.2 | 348 | 374.5 | 455 | 684 | 3520 | 8927 | 3147.2 | 215.6 | 72.9 | 266.9 |
| Mean... | 14.1 | 10.7 | 11.2 | 12.1 | 15.7 | 22.1 | 117 | 288 | 105 | 6.95 | 2.35 | 8.90 |
| Max... | 17 | 14 | 13 | 15 | 28 | 37 | 318 | 379 | 267 | 17 | 8.7 | 3.5 |
| Min... | 9.8 | 7.8 | 10 | 9.4 | 12 | 15 | 30 | 132 | 8.2 | 0.9 | 0.5 | 1.4 |
| Acre-ft. | 868 | 639 | 690 | 743 | 902 | 1360 | 6980 | 17710 | 6240 | 428 | 145 | 529 |

Total run-off for water year 1939-40=37,230 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of White River Near Meeker, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.... | 375 | 345 | 325 | 330 | 250 | 240 | 390 | 1380 | 1960 | 489 | 395 | 274 |
| 2.... | 380 | 365 | 330 | 340 | 210 | 230 | 405 | 1520 | 1700 | 477 | 345 | 256 |
| 3.... | 385 | 365 | 320 | 345 | 200 | 245 | 429 | 1580 | 1440 | 471 | 305 | 248 |
| 4.... | 370 | 370 | 315 | 350 | 250 | 260 | 447 | 1570 | 1560 | 471 | 330 | 252 |
| 5.... | 385 | 380 | 310 | 280 | 290 | 245 | 459 | 1730 | 1810 | 459 | 310 | 292 |
| 6.... | 385 | 325 | 315 | 340 | 280 | 230 | 453 | 1820 | 1890 | 435 | 310 | 441 |
| 7.... | 400 | 320 | 320 | 320 | 285 | 240 | 435 | 1480 | 1650 | 447 | 365 | 644 |
| 8.... | 400 | 340 | 320 | 315 | 270 | 260 | 423 | 1320 | 1520 | 380 | 345 | 513 |
| 9.... | 405 | 360 | 315 | 330 | 270 | 245 | 483 | 1370 | 1390 | 360 | 330 | 405 |
| 10.... | 395 | 360 | 315 | 320 | 220 | 260 | 465 | 1560 | 1200 | 345 | 350 | 360 |
| 11.... | 385 | 355 | 315 | 300 | 265 | 255 | 441 | 1570 | 1220 | 345 | 320 | 375 |
| 12.... | 385 | 345 | 310 | 320 | 254 | 250 | 453 | 1500 | 1240 | 340 | 310 | 453 |
| 13.... | 390 | 300 | 305 | 320 | 270 | 270 | 489 | 1370 | 1320 | 330 | 345 | 390 |
| 14.... | 380 | 320 | 270 | 319 | 270 | 280 | 539 | 1370 | 1350 | 345 | 345 | 390 |
| 15.... | 375 | 320 | 310 | 280 | 280 | 260 | 525 | 1470 | 1320 | 315 | 335 | 365 |
| 16.... | 370 | 340 | 370 | 320 | 270 | 295 | 501 | 1590 | 1160 | 300 | 315 | 350 |
| 17.... | 400 | 350 | 340 | 300 | 230 | 315 | 471 | 1500 | 1070 | 296 | 315 | 345 |
| 18.... | 380 | 320 | 300 | 300 | 230 | 330 | 453 | 1500 | 962 | 287 | 310 | 340 |
| 19.... | 360 | 335 | 350 | 295 | 270 | 350 | 495 | 1590 | 882 | 320 | 296 | 335 |
| 20.... | 355 | 330 | 350 | 290 | 260 | 375 | 477 | 1810 | 815 | 252 | 252 | 330 |
| 21.... | 350 | 325 | 350 | 290 | 250 | 390 | 553 | 1810 | 778 | 240 | 252 | 330 |
| 22.... | 355 | 278 | 345 | 290 | 240 | 423 | 672 | 1810 | 710 | 236 | 252 | 335 |
| 23.... | 350 | 300 | 340 | 290 | 240 | 435 | 822 | 1840 | 658 | 232 | 244 | 340 |
| 24.... | 350 | 260 | 290 | 270 | 270 | 441 | 725 | 1720 | 637 | 244 | 248 | 350 |
| 25.... | 350 | 325 | 290 | 240 | 265 | 447 | 623 | 1520 | 658 | 252 | 274 | 350 |
| 26.... | 345 | 252 | 340 | 250 | 260 | 465 | 702 | 1280 | 630 | 260 | 296 | 345 |
| 27.... | 345 | 296 | 270 | 300 | 260 | 477 | 808 | 1200 | 595 | 296 | 296 | 340 |
| 28.... | 345 | 296 | 315 | 330 | 230 | 447 | 938 | 1210 | 560 | 370 | 300 | 395 |
| 29.... | 340 | 292 | 340 | 310 | .... | 423 | 1200 | 1290 | 525 | 385 | 260 | 453 |
| 30.... | 340 | 315 | 330 | 300 | .... | 395 | 1340 | 1430 | 501 | 365 | 269 | 375 |
| 31.... | 340 | .... | 320 | 320 | .... | 385 | .... | 1530 | .... | 400 | 278 | .... |
| Total | 11470 | 9784 | 9935 | 9504 | 7139 | 10163 | 17616 | 47240 | 33711 | 10744 | 9497 | 10971 |
| Mean. | 370 | 326 | 320 | 307 | 255 | 328 | 587 | 1524 | 1124 | 347 | 306 | 366 |
| Max. | 405 | 380 | 370 | 350 | 290 | 477 | 1340 | 1840 | 1960 | 489 | 395 | 644 |
| Min. | 340 | 252 | 270 | 240 | 200 | 230 | 390 | 1200 | 501 | 232 | 244 | 248 |
| Ac-ft. | 22750 | 19410 | 19710 | 18850 | 14160 | 20160 | 34940 | 93700 | 66860 | 21310 | 18840 | 21760 |

Total run-off for water year 1938-39=372,400 acre-feet.

Discharge of White River Near Meeker, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 1.... | 345 | 325 | 310 | 305 | 290 | 300 | 355 | 581 | 2120 | 477 | 252 | 274 |
| 2.... | 335 | 335 | 305 | 296 | 280 | 305 | 365 | 658 | 2240 | 483 | 252 | 274 |
| 3.... | 335 | 330 | 296 | 300 | 274 | 300 | 330 | 815 | 2240 | 543 | 256 | 282 |
| 4.... | 350 | 325 | 300 | 292 | 280 | 296 | 320 | 1300 | 2050 | 435 | 252 | 282 |
| 5.... | 375 | 330 | 296 | 292 | 282 | 296 | 320 | 1530 | 1890 | 425 | 248 | 274 |
| 6.... | 370 | 335 | 296 | 287 | 278 | 300 | 335 | 1570 | 1630 | 400 | 232 | 278 |
| 7.... | 355 | 325 | 300 | 282 | 296 | 292 | 335 | 1630 | 1320 | 390 | 236 | 282 |
| 8.... | 370 | 320 | 300 | 269 | 282 | 296 | 320 | 1520 | 1240 | 395 | 248 | 274 |
| 9.... | 395 | 335 | 300 | 300 | 278 | 300 | 325 | 1900 | 1110 | 345 | 240 | 278 |
| 10.... | 375 | 310 | 300 | 292 | 282 | 300 | 340 | 2150 | 979 | 320 | 236 | 287 |
| 11.... | 370 | 310 | 296 | 292 | 287 | 300 | 325 | 2260 | 930 | 320 | 232 | 282 |
| 12.... | 360 | 325 | 292 | 300 | 260 | 296 | 300 | 2320 | 930 | 310 | 224 | 282 |
| 13.... | 360 | 325 | 274 | 287 | 264 | 274 | 330 | 2540 | 962 | 305 | 216 | 310 |
| 14.... | 355 | 315 | 300 | 282 | 296 | 248 | 365 | 2320 | 938 | 292 | 213 | 305 |
| 15.... | 350 | 310 | 282 | 244 | 296 | 269 | 423 | 2120 | 922 | 287 | 210 | 287 |
| 16.... | 345 | 300 | 296 | 278 | 282 | 278 | 459 | 2140 | 875 | 274 | 216 | 269 |
| 17.... | 340 | 296 | 292 | 315 | 244 | 296 | 429 | 2240 | 830 | 296 | 206 | 274 |
| 18.... | 340 | 296 | 292 | 305 | 250 | 278 | 447 | 1790 | 762 | 300 | 202 | 292 |
| 19.... | 335 | 282 | 216 | 252 | 300 | 287 | 519 | 1750 | 725 | 292 | 202 | 292 |
| 20.... | 335 | 296 | 232 | 310 | 300 | 287 | 560 | 1790 | 718 | 269 | 224 | 282 |
| 21.... | 330 | 315 | 269 | 320 | 305 | 296 | 588 | 1720 | 695 | 269 | 224 | 296 |
| 22.... | 335 | 305 | 224 | 290 | 287 | 305 | 637 | 1480 | 665 | 269 | 232 | 330 |
| 23.... | 325 | 310 | 282 | 260 | 300 | 315 | 623 | 1480 | 651 | 252 | 236 | 315 |
| 24.... | 320 | 310 | 269 | 240 | 296 | 330 | 725 | 1560 | 609 | 248 | 260 | 310 |
| 25.... | 320 | 310 | 274 | 240 | 292 | 335 | 822 | 1620 | 567 | 232 | 300 | 305 |
| 26.... | 355 | 310 | 248 | 250 | 292 | 345 | 922 | 1730 | 539 | 228 | 335 | 335 |
| 27.... | 355 | 315 | 248 | 250 | 292 | 355 | 938 | 1860 | 539 | 216 | 325 | 320 |
| 28.... | 335 | 300 | 244 | 252 | 278 | 360 | 808 | 1750 | 513 | 269 | 292 | 305 |
| 29.... | 345 | 310 | 292 | 280 | 296 | 325 | 725 | 1810 | 483 | 282 | 274 | 340 |
| 30.... | 330 | 296 | 300 | 290 | .... | 310 | 644 | 1890 | 477 | 282 | 269 | 370 |
| 31.... | 325 | .... | 315 | 290 | .... | 335 | .... | 2010 | .... | 269 | 282 | .... |
| Total | 10770 | 9406 | 8740 | 8742 | 8239 | 9409 | 14934 | 53834 | 31149 | 9882 | 7626 | 8886 |
| Mean. | 347 | 314 | 282 | 282 | 284 | 304 | 498 | 1737 | 1038 | 319 | 246 | 296 |
| Max. | 395 | 335 | 315 | 320 | 305 | 360 | 938 | 2540 | 2240 | 483 | 335 | 370 |
| Min. | 320 | 282 | 216 | 240 | 244 | 248 | 300 | 581 | 477 | 216 | 202 | 269 |
| Ac-ft. | 21360 | 18660 | 17340 | 17340 | 16340 | 18660 | 29620 | 106800 | 61780 | 19600 | 15130 | 17630 |

Total run-off for water year 1939-40=360,300 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of White River Near Watson, Utah, for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.... | 456 | 355 | 340 | 330 | 430 | 420 | 660 | 1230 | 1520 | 564 | 588 | 270 |
| 2.... | 450 | 546 | 382 | 340 | 350 | 440 | 696 | 1360 | 1580 | 540 | 462 | 260 |
| 3.... | 438 | 418 | 412 | 330 | 270 | 460 | 750 | 1450 | 1650 | 522 | 370 | 260 |
| 4.... | 448 | 370 | 412 | 330 | 250 | 500 | 708 | 1590 | 1440 | 504 | 343 | 247 |
| 5.... | 525 | 400 | 412 | 330 | 310 | 440 | 684 | 1580 | 1440 | 492 | 310 | 260 |
| 6.... | 672 | 430 | 370 | 335 | 340 | 410 | 702 | 1680 | 1600 | 468 | 316 | 275 |
| 7.... | 460 | 376 | 360 | 340 | 360 | 442 | 708 | 1800 | 1740 | 444 | 305 | 774 |
| 8.... | 1510 | 350 | 355 | 355 | 320 | 442 | 684 | 1630 | 1620 | 414 | 332 | 871 |
| 9.... | 672 | 345 | 355 | 360 | 300 | 576 | 648 | 1460 | 1500 | 392 | 343 | 720 |
| 10.... | 539 | 370 | 365 | 360 | 280 | 736 | 612 | 1440 | 1400 | 354 | 332 | 570 |
| 11.... | 525 | 388 | 394 | 350 | 324 | 560 | 588 | 1500 | 1370 | 338 | 305 | 510 |
| 12.... | 484 | 370 | 350 | 340 | 330 | 616 | 564 | 1540 | 1300 | 326 | 316 | 564 |
| 13.... | 424 | 376 | 238 | 355 | 340 | 680 | 552 | 1520 | 1270 | 310 | 290 | 612 |
| 14.... | 412 | 340 | 188 | 350 | 370 | 962 | 540 | 1460 | 1290 | 295 | 300 | 504 |
| 15.... | 412 | 355 | 174 | 330 | 410 | 1180 | 600 | 1420 | 1310 | 275 | 310 | 472 |
| 16.... | 412 | 345 | 172 | 340 | 450 | 1280 | 612 | 1490 | 1300 | 275 | 300 | 456 |
| 17.... | 632 | 370 | 190 | 350 | 360 | 1120 | 540 | 1550 | 1280 | 256 | 285 | 432 |
| 18.... | 406 | 382 | 190 | 360 | 340 | 1500 | 558 | 1540 | 1180 | 231 | 280 | 409 |
| 19.... | 365 | 355 | 185 | 380 | 370 | 2230 | 552 | 1490 | 1120 | 215 | 280 | 404 |
| 20.... | 345 | 355 | 208 | 370 | 360 | 2810 | 558 | 1490 | 1010 | 198 | 270 | 398 |
| 21.... | 330 | 406 | 262 | 370 | 360 | 3450 | 570 | 1630 | 941 | 191 | 265 | 392 |
| 22.... | 335 | 355 | 290 | 360 | 380 | 3630 | 570 | 1690 | 885 | 176 | 252 | 398 |
| 23.... | 355 | 310 | 240 | 240 | 400 | 3140 | 762 | 1680 | 815 | 164 | 247 | 387 |
| 24.... | 376 | 219 | 260 | 200 | 420 | 1750 | 780 | 1700 | 750 | 164 | 243 | 398 |
| 25.... | 406 | 166 | 280 | 190 | 410 | 1220 | 829 | 1650 | 714 | 167 | 239 | 426 |
| 26.... | 376 | 164 | 270 | 195 | 430 | 1100 | 794 | 1550 | 708 | 176 | 239 | 426 |
| 27.... | 370 | 190 | 260 | 210 | 420 | 1100 | 762 | 1410 | 696 | 164 | 239 | 404 |
| 28.... | 382 | 220 | 260 | 250 | 400 | 1040 | 794 | 1300 | 660 | 164 | 265 | 462 |
| 29.... | 382 | 242 | 290 | 320 | .... | 850 | 906 | 1260 | 624 | 198 | 265 | 528 |
| 30.... | 370 | 280 | 320 | 420 | .... | 801 | 1090 | 1300 | 594 | 285 | 290 | 528 |
| 31.... | 360 | .... | 340 | 450 | .... | 708 | .... | 1500 | .... | 376 | 338 | .... |
| Total | 14629 | 10148 | 9124 | 10140 | 10084 | 36593 | 20373 | 46890 | 35257 | 9638 | 9519 | 13677 |
| Mean. | 472 | 338 | 294 | 327 | 360 | 1180 | 679 | 1513 | 1175 | 311 | 307 | 456 |
| Max.. | 1510 | 546 | 412 | 450 | 450 | 3630 | 1090 | 1800 | 1740 | 564 | 588 | 871 |
| Min.. | 330 | 164 | 172 | 190 | 250 | 410 | 540 | 1230 | 594 | 164 | 239 | 247 |
| Acre-ft. | 29020 | 20130 | 18100 | 20110 | 20000 | 72580 | 40410 | 93000 | 69930 | 19120 | 18880 | 27130 |

Total run-off for water year 1938-39=448,400 acre-feet.

Discharge of White River Near Watson, Utah, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 1.... | 462 | 370 | 348 | 400 | 370 | 450 | 416 | 1070 | 1680 | 466 | 215 | 260 |
| 2.... | 438 | 370 | 365 | 380 | 360 | 430 | 444 | 988 | 1750 | 394 | 192 | 270 |
| 3.... | 404 | 370 | 370 | 370 | 350 | 420 | 488 | 974 | 1870 | 410 | 192 | 260 |
| 4.... | 678 | 376 | 360 | 370 | 340 | 430 | 515 | 1030 | 1920 | 400 | 184 | 295 |
| 5.... | 426 | 376 | 343 | 360 | 330 | 400 | 482 | 1230 | 1780 | 378 | 188 | 265 |
| 6.... | 414 | 382 | 343 | 350 | 340 | 380 | 454 | 1500 | 1680 | 361 | 184 | 265 |
| 7.... | 409 | 376 | 365 | 330 | 350 | 390 | 460 | 1590 | 1500 | 350 | 180 | 265 |
| 8.... | 409 | 382 | 338 | 320 | 360 | 400 | 449 | 1650 | 1320 | 335 | 180 | 270 |
| 9.... | 744 | 376 | 354 | 360 | 361 | 410 | 422 | 1590 | 1160 | 330 | 176 | 275 |
| 10.... | 522 | 387 | 343 | 350 | 350 | 430 | 416 | 1790 | 1090 | 310 | 176 | 422 |
| 11.... | 426 | 392 | 343 | 340 | 340 | 398 | 416 | 1960 | 1030 | 275 | 176 | 361 |
| 12.... | 398 | 376 | 348 | 340 | 350 | 370 | 410 | 2040 | 946 | 265 | 168 | 300 |
| 13.... | 387 | 382 | 348 | 330 | 340 | 365 | 383 | 2120 | 890 | 260 | 168 | 295 |
| 14.... | 382 | 387 | 326 | 300 | 340 | 348 | 372 | 2210 | 848 | 245 | 160 | 515 |
| 15.... | 387 | 387 | 326 | 280 | 350 | 354 | 388 | 2190 | 805 | 240 | 152 | 400 |
| 16.... | 387 | 382 | 338 | 310 | 340 | 316 | 438 | 1990 | 771 | 240 | 152 | 345 |
| 17.... | 392 | 376 | 354 | 340 | 330 | 343 | 504 | 1970 | 757 | 345 | 150 | 345 |
| 18.... | 382 | 365 | 360 | 330 | 350 | 426 | 532 | 2060 | 708 | 315 | 155 | 356 |
| 19.... | 382 | 354 | 310 | 320 | 380 | 438 | 515 | 1830 | 654 | 275 | 152 | 335 |
| 20.... | 387 | 365 | 300 | 310 | 370 | 387 | 526 | 1700 | 618 | 275 | 155 | 400 |
| 21.... | 382 | 370 | 305 | 340 | 380 | 370 | 618 | 1680 | 600 | 240 | 164 | 378 |
| 22.... | 387 | 398 | 310 | 320 | 390 | 370 | 702 | 1620 | 600 | 225 | 155 | 564 |
| 23.... | 392 | 387 | 330 | 290 | 410 | 360 | 785 | 1460 | 588 | 215 | 176 | 444 |
| 24.... | 358 | 382 | 340 | 280 | 400 | 370 | 834 | 1430 | 554 | 210 | 225 | 410 |
| 25.... | 387 | 376 | 310 | 330 | 390 | 387 | 939 | 1430 | 542 | 176 | 356 | 394 |
| 26.... | 534 | 365 | 310 | 340 | 410 | 404 | 1060 | 1480 | 498 | 192 | 995 | 427 |
| 27.... | 504 | 360 | 270 | 350 | 420 | 438 | 1150 | 1570 | 466 | 180 | 460 | 388 |
| 28.... | 420 | 360 | 250 | 370 | 430 | 498 | 1190 | 1640 | 449 | 255 | 400 | 482 |
| 29.... | 387 | 360 | 280 | 390 | 450 | 546 | 1190 | 1600 | 444 | 196 | 356 | 1010 |
| 30.... | 376 | 354 | 330 | 380 | .... | 516 | 1130 | 1610 | 471 | 210 | 315 | 1310 |
| 31.... | 376 | .... | 370 | 380 | .... | 450 | .... | 1660 | .... | 220 | 275 | .... |
| Total | 13359 | 11243 | 10287 | 10560 | 10681 | 12594 | 18628 | 50662 | 28990 | 8788 | 7332 | 12306 |
| Mean. | 431 | 375 | 332 | 341 | 368 | 406 | 621 | 1634 | 966 | 283 | 237 | 410 |
| Max.. | 744 | 398 | 370 | 400 | 450 | 546 | 1190 | 2210 | 1920 | 466 | 995 | 1310 |
| Min.. | 376 | 354 | 250 | 280 | 330 | 316 | 372 | 974 | 444 | 176 | 150 | 260 |
| Ac.-ft. | 26500 | 22300 | 20400 | 20950 | 21190 | 24980 | 36950 | 100500 | 57500 | 17430 | 14540 | 24410 |

Total run-off for water year 1939-40=387,600 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Yampa River at Steamboat Springs, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|-------|-------|--------|-------|------|------|-------|
| 1.... | 114 | 110 | 153 | 124 | 122 | 134 | 493 | 1840 | 2290 | 263 | 232 | 46 |
| 2.... | 110 | 110 | 157 | 122 | 119 | 120 | 608 | 1960 | 1890 | 246 | 168 | 45 |
| 3.... | 107 | 112 | 160 | 122 | 117 | 120 | 771 | 2000 | 1730 | 221 | 149 | 40 |
| 4.... | 100 | 122 | 150 | 124 | 112 | 122 | 961 | 1980 | 1880 | 195 | 143 | 35 |
| 5.... | 95 | 132 | 142 | 120 | 112 | 124 | 1080 | 2240 | 1870 | 195 | 138 | 38 |
| 6.... | 93 | 107 | 135 | 114 | 114 | 125 | 842 | 2260 | 1710 | 168 | 140 | 63 |
| 7.... | 95 | 120 | 127 | 104 | 122 | 124 | 685 | 1830 | 1440 | 143 | 140 | 127 |
| 8.... | 102 | 114 | 132 | 117 | 143 | 117 | 758 | 1540 | 1250 | 127 | 135 | 130 |
| 9.... | 112 | 124 | 135 | 117 | 114 | 117 | 849 | 1700 | 1130 | 117 | 130 | 114 |
| 10.... | 114 | 146 | 132 | 120 | 135 | 122 | 679 | 1900 | 1130 | 102 | 114 | 90 |
| 11.... | 102 | 132 | 127 | 120 | 122 | 122 | 631 | 1900 | 1030 | 84 | 114 | 95 |
| 12.... | 95 | 120 | 120 | 120 | 123 | 127 | 679 | 1830 | 1020 | 72 | 114 | 112 |
| 13.... | 90 | 110 | 102 | 120 | 114 | 135 | 816 | 1540 | 1000 | 74 | 104 | 97 |
| 14.... | 93 | 120 | 104 | 117 | 112 | 130 | 816 | 1740 | 996 | 70 | 97 | 74 |
| 15.... | 110 | 130 | 110 | 117 | 107 | 135 | 816 | 1520 | 927 | 63 | 88 | 72 |
| 16.... | 112 | 107 | 130 | 114 | 120 | 127 | 727 | 2160 | 810 | 58 | 86 | 54 |
| 17.... | 122 | 120 | 135 | 112 | 121 | 117 | 554 | 2150 | 721 | 50 | 81 | 56 |
| 18.... | 124 | 117 | 130 | 110 | 120 | 110 | 520 | 2410 | 643 | 45 | 77 | 50 |
| 19.... | 117 | 114 | 127 | 110 | 120 | 124 | 581 | 2610 | 576 | 43 | 74 | 50 |
| 20.... | 110 | 135 | 124 | 112 | 120 | 146 | 581 | 2590 | 542 | 38 | 70 | 50 |
| 21.... | 107 | 127 | 130 | 110 | 124 | 171 | 608 | 2500 | 620 | 37 | 65 | 45 |
| 22.... | 100 | 143 | 127 | 110 | 114 | 221 | 830 | 2450 | 598 | 35 | 63 | 45 |
| 23.... | 95 | 104 | 127 | 105 | 124 | 309 | 1140 | 2480 | 466 | 34 | 61 | 46 |
| 24.... | 95 | 104 | 124 | 102 | 124 | 442 | 1160 | 2300 | 420 | 34 | 40 | 65 |
| 25.... | 93 | 93 | 122 | 100 | 120 | 598 | 1030 | 1890 | 442 | 45 | 40 | 88 |
| 26.... | 97 | 114 | 120 | 110 | 117 | 667 | 1030 | 1670 | 433 | 40 | 43 | 79 |
| 27.... | 97 | 110 | 118 | 120 | 127 | 727 | 1090 | 1610 | 384 | 45 | 45 | 72 |
| 28.... | 97 | 132 | 114 | 124 | 130 | 703 | 1320 | 1790 | 334 | 70 | 40 | 86 |
| 29.... | 102 | 116 | 107 | 122 | .... | 570 | 1610 | 2000 | 301 | 88 | 43 | 130 |
| 30.... | 104 | 150 | 120 | 127 | .... | 451 | 1750 | 1960 | 278 | 154 | 43 | 112 |
| 31.... | 112 | .... | 124 | 130 | .... | 438 | .... | 1950 | .... | 192 | 43 | .... |
| Total | 3216 | 3625 | 3965 | 3596 | 3369 | 7795 | 26015 | 62300 | 28861 | 3148 | 2920 | 2206 |
| Mean | 104 | 121 | 128 | 116 | 120 | 251 | 867 | 2010 | 962 | 102 | 94.2 | 73.5 |
| Max... | 124 | 150 | 160 | 130 | 143 | 727 | 1750 | 2610 | 2290 | 263 | 232 | 130 |
| Min... | 90 | 93 | 102 | 100 | 107 | 110 | 493 | 1520 | 278 | 34 | 40 | 35 |
| Acre-ft. | 6380 | 7190 | 7860 | 7130 | 6680 | 15460 | 51600 | 123600 | 57240 | 6240 | 5790 | 4380 |

Total run-off for water year 1938-39—299,600 acre-feet.

Discharge of Yampa River at Steamboat Springs, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|--------|-------|------|------|-------|
| 1.... | 95 | 110 | 72 | 65 | 74 | 112 | 388 | 673 | 2620 | 235 | 74 | 40 |
| 2.... | 86 | 117 | 79 | 79 | 77 | 127 | 384 | 709 | 2570 | 356 | 65 | 23 |
| 3.... | 77 | 112 | 72 | 90 | 81 | 114 | 293 | 810 | 2440 | 361 | 56 | 24 |
| 4.... | 84 | 107 | 72 | 90 | 84 | 120 | 285 | 1070 | 2210 | 289 | 56 | 29 |
| 5.... | 95 | 112 | 72 | 90 | 77 | 114 | 356 | 1250 | 1890 | 242 | 51 | 26 |
| 6.... | 98 | 117 | 74 | 88 | 79 | 104 | 410 | 1340 | 1620 | 211 | 48 | 26 |
| 7.... | 102 | 114 | 81 | 85 | 81 | 114 | 384 | 1380 | 1410 | 174 | 50 | 26 |
| 8.... | 107 | 110 | 74 | 82 | 68 | 107 | 361 | 1410 | 1320 | 146 | 53 | 20 |
| 9.... | 114 | 117 | 79 | 77 | 81 | 107 | 370 | 1610 | 1120 | 127 | 53 | 20 |
| 10.... | 124 | 102 | 79 | 77 | 88 | 106 | 379 | 1870 | 1080 | 114 | 50 | 27 |
| 11.... | 122 | 86 | 74 | 88 | 72 | 105 | 301 | 2110 | 1050 | 110 | 63 | 26 |
| 12.... | 114 | 100 | 90 | 90 | 84 | 104 | 263 | 2220 | 1040 | 90 | 56 | 18 |
| 13.... | 110 | 110 | 68 | 81 | 79 | 104 | 330 | 2380 | 1040 | 86 | 48 | 14 |
| 14.... | 110 | 107 | 79 | 84 | 74 | 104 | 515 | 2210 | 1020 | 86 | 40 | 34 |
| 15.... | 110 | 93 | 81 | 60 | 65 | 104 | 733 | 2240 | 954 | 84 | 35 | 48 |
| 16.... | 110 | 95 | 79 | 66 | 77 | 107 | 758 | 2480 | 914 | 72 | 35 | 51 |
| 17.... | 107 | 79 | 97 | 70 | 66 | 120 | 673 | 2530 | 810 | 72 | 34 | 54 |
| 18.... | 97 | 74 | 97 | 65 | 70 | 127 | 581 | 2150 | 745 | 90 | 34 | 65 |
| 19.... | 97 | 88 | 95 | 60 | 74 | 130 | 614 | 2150 | 673 | 107 | 30 | 70 |
| 20.... | 95 | 86 | 48 | 59 | 70 | 143 | 679 | 2120 | 603 | 90 | 32 | 74 |
| 21.... | 90 | 102 | 61 | 60 | 79 | 146 | 703 | 1980 | 592 | 77 | 24 | 84 |
| 22.... | 90 | 127 | 58 | 58 | 77 | 165 | 691 | 1710 | 554 | 68 | 26 | 117 |
| 23.... | 93 | 84 | 54 | 66 | 72 | 211 | 625 | 1720 | 476 | 74 | 24 | 112 |
| 24.... | 90 | 95 | 56 | 68 | 77 | 246 | 733 | 1770 | 420 | 65 | 30 | 97 |
| 25.... | 77 | 97 | 63 | 65 | 79 | 267 | 914 | 1860 | 348 | 65 | 38 | 84 |
| 26.... | 86 | 90 | 68 | 68 | 81 | 285 | 934 | 1950 | 301 | 63 | 86 | 107 |
| 27.... | 97 | 95 | 70 | 77 | 81 | 297 | 927 | 2430 | 263 | 56 | 117 | 198 |
| 28.... | 95 | 86 | 64 | 74 | 88 | 285 | 914 | 2440 | 235 | 61 | 107 | 140 |
| 29.... | 102 | 81 | 54 | 86 | 100 | 249 | 862 | 2470 | 211 | 74 | 88 | 146 |
| 30.... | 95 | 68 | 50 | 86 | .... | 235 | 790 | 2490 | 204 | 74 | 70 | 174 |
| 31.... | 107 | .... | 56 | 86 | .... | 281 | .... | 2520 | .... | 74 | 53 | .... |
| Total | 3076 | 2961 | 2216 | 2340 | 2255 | 4940 | 17150 | 58052 | 30733 | 3893 | 1626 | 1974 |
| Mean | 99.2 | 98.7 | 71.5 | 75.5 | 77.8 | 159 | 572 | 1873 | 1024 | 126 | 52.5 | 65.8 |
| Max... | 124 | 127 | 97 | 90 | 100 | 297 | 934 | 2530 | 2620 | 361 | 117 | 198 |
| Min... | 77 | 68 | 48 | 58 | 65 | 104 | 263 | 673 | 204 | 56 | 24 | 14 |
| Acre-ft. | 6100 | 5870 | 4400 | 4640 | 4470 | 9800 | 34020 | 115100 | 60960 | 7720 | 3230 | 3920 |

Total run-off for water year 1939-40—260,200 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Yampa River Near Maybell, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|------|-------|
| 1..... | 210 | 275 | 472 | 250 | 280 | 275 | 2110 | 6670 | 5460 | 1010 | 152 | 60 |
| 2..... | 204 | 318 | 472 | 240 | 270 | 275 | 2220 | 7150 | 6120 | 931 | 285 | 57 |
| 3..... | 207 | 334 | 508 | 235 | 255 | 280 | 2050 | 7590 | 5380 | 872 | 394 | 56 |
| 4..... | 197 | 352 | 496 | 240 | 252 | 302 | 3080 | 7610 | 4470 | 808 | 307 | 55 |
| 5..... | 228 | 382 | 520 | 250 | 255 | 307 | 3130 | 7410 | 4810 | 744 | 235 | 56 |
| 6..... | 240 | 376 | 562 | 270 | 256 | 310 | 3160 | 7570 | 5280 | 706 | 207 | 63 |
| 7..... | 204 | 340 | 514 | 280 | 258 | 318 | 2760 | 7610 | 4880 | 650 | 192 | 78 |
| 8..... | 204 | 296 | 394 | 270 | 260 | 320 | 2660 | 6200 | 4070 | 550 | 183 | 113 |
| 9..... | 232 | 302 | 472 | 265 | 255 | 328 | 2560 | 5180 | 3590 | 460 | 194 | 472 |
| 10..... | 250 | 376 | 524 | 265 | 255 | 355 | 2970 | 5580 | 3290 | 388 | 189 | 472 |
| 11..... | 275 | 340 | 329 | 257 | 265 | 364 | 2840 | 6220 | 2920 | 352 | 178 | 364 |
| 12..... | 285 | 352 | 340 | 260 | 265 | 400 | 2520 | 6160 | 2780 | 318 | 161 | 280 |
| 13..... | 280 | 258 | 300 | 260 | 258 | 500 | 2350 | 5900 | 2720 | 260 | 148 | 312 |
| 14..... | 260 | 238 | 288 | 258 | 265 | 580 | 2510 | 5060 | 2850 | 218 | 137 | 448 |
| 15..... | 250 | 290 | 300 | 255 | 270 | 760 | 2920 | 5360 | 2970 | 197 | 132 | 370 |
| 16..... | 245 | 290 | 305 | 260 | 275 | 1100 | 2990 | 6030 | 2960 | 192 | 128 | 307 |
| 17..... | 250 | 312 | 300 | 260 | 250 | 1500 | 2800 | 6560 | 2550 | 178 | 123 | 260 |
| 18..... | 265 | 265 | 280 | 265 | 245 | 1800 | 2060 | 6200 | 2410 | 170 | 111 | 224 |
| 19..... | 280 | 329 | 292 | 265 | 230 | 1600 | 2090 | 6620 | 2050 | 152 | 104 | 200 |
| 20..... | 290 | 329 | 298 | 255 | 235 | 1670 | 2200 | 7000 | 1780 | 139 | 100 | 183 |
| 21..... | 296 | 364 | 322 | 260 | 235 | 1540 | 2260 | 7240 | 1630 | 123 | 92 | 175 |
| 22..... | 270 | 270 | 306 | 250 | 230 | 1720 | 2300 | 6690 | 1620 | 118 | 81 | 170 |
| 23..... | 265 | 240 | 292 | 245 | 228 | 1940 | 2860 | 6290 | 1690 | 111 | 76 | 170 |
| 24..... | 265 | 240 | 300 | 225 | 235 | 1790 | 3490 | 6420 | 1460 | 106 | 77 | 165 |
| 25..... | 255 | 245 | 296 | 210 | 245 | 2060 | 3420 | 6050 | 1400 | 105 | 76 | 168 |
| 26..... | 245 | 260 | 292 | 210 | 260 | 2300 | 3540 | 5060 | 1420 | 105 | 75 | 210 |
| 27..... | 235 | 280 | 280 | 220 | 265 | 2510 | 3750 | 4340 | 1380 | 102 | 72 | 240 |
| 28..... | 240 | 330 | 280 | 250 | 270 | 2760 | 3840 | 4060 | 1280 | 100 | 68 | 265 |
| 29..... | 245 | 394 | 285 | 255 | ..... | 2840 | 4980 | 4240 | 1180 | 100 | 64 | 265 |
| 30..... | 250 | 460 | 300 | 265 | ..... | 2600 | 6010 | 4750 | 1100 | 100 | 62 | 260 |
| 31..... | 245 | ..... | 290 | 270 | ..... | 2300 | ..... | 5380 | ..... | 104 | 60 | ..... |
| Total | 7667 | 9424 | 11009 | 7820 | 7122 | 37704 | 88930 | 190210 | 87780 | 10469 | 4463 | 6518 |
| Mean. | 247 | 314 | 355 | 252 | 254 | 1216 | 2964 | 6136 | 2926 | 338 | 144 | 217 |
| Max. | 296 | 460 | 562 | 280 | 280 | 2840 | 6010 | 7610 | 6420 | 1010 | 394 | 472 |
| Min. | 197 | 228 | 280 | 210 | 228 | 275 | 2060 | 4060 | 1100 | 100 | 60 | 55 |
| Ac.-ft. | 15210 | 18690 | 27840 | 15510 | 14130 | 74780 | 176400 | 377300 | 174100 | 20760 | 8850 | 12930 |

Total run-off for water year 1938-39=930,500 acre-feet.

Discharge of Yampa River Near Maybell, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|-------|------|------|-------|-------|--------|--------|--------|-------|------|-------|
| 1..... | 352 | 270 | 197 | 157 | 200 | 460 | 1130 | 3400 | 6230 | 752 | 121 | 66 |
| 2..... | 329 | 285 | 204 | 172 | 250 | 448 | 1430 | 2850 | 6560 | 744 | 120 | 64 |
| 3..... | 285 | 285 | 197 | 194 | 250 | 448 | 1600 | 3180 | 6560 | 840 | 113 | 59 |
| 4..... | 275 | 285 | 180 | 189 | 240 | 448 | 1200 | 4160 | 6510 | 982 | 110 | 48 |
| 5..... | 265 | 296 | 168 | 192 | 228 | 448 | 1100 | 5700 | 5940 | 931 | 105 | 44 |
| 6..... | 255 | 296 | 163 | 178 | 224 | 448 | 1220 | 6230 | 5540 | 816 | 99 | 42 |
| 7..... | 285 | 296 | 175 | 165 | 224 | 448 | 1390 | 6160 | 4830 | 685 | 96 | 41 |
| 8..... | 324 | 296 | 192 | 163 | 224 | 406 | 1370 | 6030 | 3820 | 615 | 92 | 41 |
| 9..... | 358 | 318 | 265 | 152 | 221 | 424 | 1180 | 6140 | 3750 | 538 | 86 | 42 |
| 10..... | 358 | 312 | 235 | 141 | 218 | 430 | 1200 | 6730 | 3160 | 484 | 82 | 58 |
| 11..... | 376 | 312 | 232 | 143 | 221 | 412 | 1300 | 7300 | 2700 | 424 | 77 | 44 |
| 12..... | 370 | 302 | 172 | 135 | 221 | 418 | 1170 | 7770 | 2780 | 340 | 74 | 47 |
| 13..... | 364 | 250 | 137 | 128 | 218 | 358 | 948 | 8210 | 2980 | 307 | 70 | 49 |
| 14..... | 352 | 260 | 132 | 130 | 221 | 312 | 965 | 8850 | 3110 | 280 | 68 | 74 |
| 15..... | 334 | 265 | 128 | 114 | 221 | 312 | 1420 | 8090 | 3210 | 250 | 65 | 59 |
| 16..... | 329 | 265 | 163 | 120 | 221 | 312 | 2230 | 7260 | 3100 | 210 | 62 | 50 |
| 17..... | 318 | 255 | 189 | 125 | 218 | 340 | 2380 | 7820 | 3130 | 270 | 57 | 47 |
| 18..... | 302 | 210 | 170 | 125 | 218 | 400 | 2180 | 8180 | 2960 | 245 | 55 | 48 |
| 19..... | 296 | 189 | 125 | 116 | 221 | 394 | 2010 | 6890 | 2580 | 240 | 52 | 55 |
| 20..... | 290 | 180 | 114 | 126 | 221 | 424 | 2380 | 6250 | 2330 | 302 | 50 | 64 |
| 21..... | 285 | 175 | 141 | 130 | 218 | 460 | 2840 | 6160 | 2340 | 296 | 47 | 69 |
| 22..... | 275 | 186 | 95 | 132 | 224 | 520 | 3190 | 6030 | 2610 | 245 | 45 | 76 |
| 23..... | 260 | 210 | 126 | 150 | 235 | 574 | 4130 | 5140 | 2180 | 214 | 51 | 128 |
| 24..... | 250 | 228 | 132 | 168 | 255 | 643 | 4450 | 4810 | 1910 | 189 | 44 | 141 |
| 25..... | 245 | 221 | 139 | 170 | 270 | 784 | 3860 | 4730 | 1630 | 172 | 49 | 172 |
| 26..... | 280 | 200 | 139 | 175 | 312 | 880 | 5080 | 5020 | 1380 | 163 | 120 | 175 |
| 27..... | 290 | 218 | 137 | 180 | 352 | 1070 | 4920 | 5120 | 1230 | 128 | 60 | 159 |
| 28..... | 280 | 240 | 123 | 175 | 436 | 1260 | 5080 | 6250 | 1080 | 118 | 49 | 204 |
| 29..... | 296 | 240 | 150 | 172 | 448 | 1250 | 4730 | 6290 | 940 | 113 | 54 | 275 |
| 30..... | 285 | 200 | 146 | 178 | ..... | 1010 | 4290 | 5920 | 840 | 116 | 63 | 302 |
| 31..... | 265 | ..... | 148 | 183 | ..... | 906 | ..... | 5700 | ..... | 116 | 70 | ..... |
| Total | 9428 | 7510 | 5014 | 4778 | 7230 | 17447 | 72373 | 188370 | 97920 | 12125 | 2306 | 2743 |
| Mean. | 304 | 250 | 162 | 154 | 249 | 563 | 2412 | 6076 | 3264 | 391 | 74.4 | 91.4 |
| Max. | 376 | 318 | 265 | 194 | 448 | 1260 | 5080 | 8850 | 6560 | 982 | 121 | 302 |
| Min. | 245 | 175 | 95 | 114 | 200 | 312 | 948 | 2850 | 840 | 113 | 44 | 41 |
| Ac.-ft. | 18700 | 14900 | 9950 | 9480 | 14340 | 34610 | 143500 | 373600 | 194200 | 24050 | 4570 | 5440 |

Total run-off for water year 1939-40=847,340 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

SAN JUAN RIVER BASIN

SAN JUAN RIVER NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 12, T. 36 N., R. 1 W., at bridge $\frac{1}{3}$ mile above mouth of West Fork of San Juan River and 9.5 miles northeast of Pagosa Springs.

Drainage Area—86.9 square miles.

Records Available—May, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40; 1,670 second feet, May 14, 1938. Gage height 3.25 feet.

Greatest known flood occurred October 5, 1911 (discharge not determined).

Maximum Discharge—Year 1938; 1,670 second feet, May 14, 1938. Gage height 3.25 feet.

Maximum Discharge—Year 1939; 580 second feet, March 17, 1939. Gage height 3.76 feet.

Maximum Discharge—Year 1940; 1,600 second feet, May 17, 1940. Gage height 5.16 feet.

Accuracy—Records considered good except those for periods of ice effect December 19, 1937, to February 19, 1938; November 15 to March 21, 1939, and from November 16-28, December 1, 1939, to January 4, 1940, January 14-25, February 6-20, and those for March 21 to April 24, 1940, which were computed on basis of 3, 7 and 2 discharge measurements for each period, weather records and comparison with record of San Juan River at Pagosa Springs, and are fair.

SAN JUAN RIVER AT PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in S $\frac{1}{2}$ Sec. 13, T. 35 N., R. 2 W., under lower highway bridge at Pagosa Springs. Prior to 1935 record was based on daily staff gage readings. Records are comparable.

Drainage Area—298 square miles. Zero of gage is 7,052.03 feet above mean sea level.

Records Available—January, 1911, to November, 1914; May, 1935, to September 30, 1940.

Maximum discharge observed during period 1911-14, 1935-40; 4,710 second feet, June 15, 1935.

Maximum Discharge—Year 1939; 1,510 second feet, May 22, 1939. Gage height 5.22 feet.

Maximum Discharge—Year 1940; 1,600 second feet, May 17, 1940. Gage height 5.16 feet.

Accuracy—Records considered good except for period of missing gage heights March 19-24, 1939, which were computed on

basis of combined flow for San Juan River and West Fork near Pagosa Springs, and are fair.

Diversions for irrigation above station.

SAN JUAN RIVER AT ROSA, NEW MEXICO

Location—Water stage recorder in Sec. 21, T. 32 N., R. 5 W., at Rosa, about 75 feet above highway bridge and $\frac{1}{4}$ mile below mouth of Piedra River. From 1895 to 1899 and August 21, 1910, to September 30, 1920, a station was maintained at Arboles. For this period the San Juan River at Arboles, plus the Piedra River at Arboles, gives the total flow of San Juan at Rosa. Prior to May 13, 1937, water stage recorder located about 100 feet upstream.

Drainage Area—1,990 square miles.

Records Available—October 1, 1920, to September 30, 1940.

Maximum discharge observed during period 1930-40; about 10,400 second feet, June 21, 1935. Gage height 7.60 feet.

Maximum Discharge—Year 1939; 5,670 second feet, March 24, 1939. Gage height 5.29 feet.

Maximum Discharge—Year 1940; 3,780 second feet, May 18, 1940. Gage height 4.36 feet.

Accuracy—Discharges for periods of missing gage heights, February 10-12, 15-22, July 17, 18, 1939, computed on basis of weather records and records for San Juan River at Pagosa Springs and Farmington. Those for periods of ice effect, November 25 to December 8, and December 26, 1938, to March 20, 1939, and for December 13, 14, 16-20, 23, and December 25, 1939, to February 21, 1940, computed on basis of weather records and the records for the San Juan River at Pagosa Springs.

WEST FORK OF SAN JUAN RIVER ABOVE BORNS LAKE, NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in Sec. 36, T. 38 N., R. 1 W., $\frac{1}{2}$ mile below Beaver Creek, $1\frac{1}{2}$ miles above Borns Lake, and 16 miles northeast of Pagosa Springs.

Drainage Area—41.2 square miles.

Records Available—April, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 1,100 second feet, June 3, 1938. Gage height 4.43 feet.

Maximum Discharge—Year 1939; 535 second feet, May 19, 1939. Gage height 3.33 feet.

Maximum Discharge—Year 1940; 430 second feet, May 14, 1940. Gage height 3.31 feet.

Accuracy—Records considered good except those for periods of missing gage heights, October 31, November 1-5, 7-12, 14-16, 1938, and for period of ice effect, November 20, 1938, to March

22, 1939, and from November 16, 1939, to April 17, 1940, which were computed on basis of discharge measurements and on basis of records for San Juan near Pagosa Springs, and are fair.

No diversions or regulations above station.

WEST FORK OF SAN JUAN RIVER NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 12, T. 36 N., R. 1 W., 30 feet downstream from highway bridge, 0.6 mile above mouth and 10 miles northeast of Pagosa Springs.

Drainage Area—87.9 square miles.

Records Available—April 26, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40; 2,250 second feet, June 15, 1935. Gage height 6.83 feet.

Maximum Discharge—Year 1938; 2,030 second feet, May 28, 1938. Gage height 5.61 feet.

Maximum Discharge—Year 1939; 850 second feet, May 19, 1939. Gage height 3.53 feet.

Maximum Discharge—Year 1940; 735 second feet, May 14, 1940. Gage height 3.25 feet.

Accuracy—Records considered good except those for periods of ice effect, December 16, 1937, to February 19, 1938, February 26-27, computed on basis of 1 discharge measurement, and from November 25, 1938, to March 23, 1939, computed on basis of 5 discharge measurements, and those from December 14, 1939, to February 23, 1940, computed on basis of 3 discharge measurements, weather records and comparison with records of San Juan River at Pagosa Springs, and are fair.

TURKEY CREEK NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder at west side of Sec. 10, T. 36 N., R. 1 W., 2 $\frac{1}{4}$ miles above mouth and 8 miles northeast of Pagosa Springs.

Drainage Area—23.0 square miles.

Records Available—May 1, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 602 second feet, May 28, 1938. Gage height 3.20 feet.

Maximum Discharge—Year 1939; 209 second feet, May 10, 1939. Gage height 2.27 feet.

Maximum Discharge—Year 1940; 209 second feet, May 4, 1940. Gage height 2.33 feet.

Accuracy—Records considered fair. Records for periods of ice effect and missing gage heights, November 12, 1938, to March 21, 1939, computed on basis of 5 discharge measurements, weather records and records for station on Navajo River at Edith, and

from November 16-26, December 13-17, and December 23, 1939, to March 19, 1940, computed on above basis, with 3 discharge measurements.

Diversions for irrigation above station.

RIO BLANCO NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in center of Sec. 1, T. 34 N., R. 1 E., at highway bridge 0.3 mile above mouth of Leche Creek and 12.5 miles southeast of Pagosa Springs.

Drainage Area—58 square miles.

Records Available—May 24, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-1940; 1,340 second feet, May 17, 1937. Gage height 4.06 feet.

Maximum Discharge—Year 1939; 466 second feet, September 11, 1939. Gage height 2.92 feet.

Maximum Discharge—Year 1940; 516 second feet, May 17, 1940. Gage height 2.97 feet.

Accuracy—Records considered good. Records for period of ice effect, November 13, 14, 18, 19, 23-30, December 2, 3, 5-10, 13-15, 17, 18, and December 22, 1938, to March 19, 1939, and those from December 27, 1939, to February 23, 1940, which were computed on basis of 3 and 2 discharge measurements, each period, weather records and records for San Juan River at Pagosa Springs, and are fair.

Diversions for irrigation above station.

RITO BLANCO NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 12, T. 34 N., R. 1 W., at road crossing 0.1 mile above Sheep Cabin Creek and 7 $\frac{3}{4}$ miles southeast of Pagosa Springs.

Drainage Area—23.3 square miles.

Records Available—May 1, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40; 310 second feet, June 9, 1935. Gage height 2.87 feet.

Maximum Discharge—Year 1939; 96 second feet, April 28, 1939. Gage height 2.29 feet.

Maximum Discharge—Year 1940; 134 second feet, May 17, 1940. Gage height 2.31 feet.

Accuracy—Records considered good except those for periods of ice effect, November 8-10, November 13, 1938, to March 20, 1939, and December 27, 1939, to February 7, 1940, February 17, 1940, to March 4, 1940, which were computed on basis of 6 and 2 discharge measurements, respectively, and weather records, and are fair.

Diversions for irrigation above station.

NAVAJO RIVER AT BANDED PEAK RANCH NEAR CHROMO, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 24, T. 33 N., R. 2 E., on Banded Peak Ranch, $\frac{1}{2}$ mile below mouth of Aspen Creek, and 9 miles northeast of Chromo.

Drainage Area—69.8 square miles.

Records Available—April 1, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 876 second feet, May 28, 1938. Gage height 3.42 feet.

Maximum Discharge—Year 1939; 466 second feet, May 19, 1939. Gage height 3.07 feet.

Maximum Discharge—Year 1940; 500 second feet, May 31, 1940. Gage height 3.05 feet.

Accuracy—Records considered good except those for periods of missing gage heights, October 7, 9, 13, 18-20, November 5-10, 1938, September 12-19, 1939, which were computed on basis of records at Edith, and those for period of ice effect, November 22, 1938, to March 18, 1939, and for December 27-31, 1939, January 14-23, 1940, and February 6-21, computed on basis of 1 discharge measurement and record for San Juan River at Pagosa Springs, and are fair.

No diversions or regulations above station.

NAVAJO RIVER NEAR CHROMO, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 6, T. 32 N., R. 2 E., 3.5 miles east of Chromo.

Drainage Area—118 square miles.

Records Available—May 27, 1935, to November 13, 1939. (Discontinued.)

Maximum discharge observed during period 1935-39; about 1,920 second feet, June 16, 1935. Gage height 4.46 feet.

NAVAJO RIVER AT EDITH, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 24, T. 32 N., R. 1 W., at highway bridge $\frac{1}{4}$ mile east of Edith and 1 mile above mouth of Coyote Creek. Prior to January 1, 1929, staff gage at same site but unknown datum.

Drainage Area—165 square miles.

Records Available—September, 1912, to December, 1928; June, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40; 2,370 second feet, April 15, 1937. Gage height 5.77 feet.

Maximum Discharge—Year 1939; 786 second feet, March 23, 1939. Gage height 3.61 feet.

Maximum Discharge—Year 1940; 635 second feet, May 18, 1940. Gage height 3.41 feet.

Accuracy—Records considered excellent except those for periods of ice effect, November 25, 1938, to March 22, 1939, and December 21, 1939, to March 20, 1940, computed on basis of 5 and 2 discharge measurements, each, and records for station on San Juan River at Pagosa Springs, and are fair.

LITTLE NAVAJO RIVER AT CHROMO, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 4, T. 32 N., R. 1 E., at highway bridge at Chromo $\frac{1}{4}$ mile upstream from mouth.

Drainage Area—21.9 square miles.

Records Available—May 28, 1935, to September 30, 1940.

Maximum discharge observed during period 1935-40; 240 second feet (estimated), April 15, 1937.

Maximum Discharge—Year 1939; 135 second feet, March 23, 1939. Gage height 4.11 feet.

Maximum Discharge—Year 1940; 63 second feet, April 14, 1940. Gage height 2.66 feet.

Accuracy—Records considered good except for periods of missing gage heights, and ice effect periods, November 6, 7, November 9, 1938, to March 19, 1939, and December 26, 1939. January 3, 1940, January 14-24, February 7-11, 1940, which were computed on basis of 4 discharge measurements, weather records and records for San Juan River at Pagosa Springs, and are fair.

Diversions for irrigation above station.

PIEDRA RIVER AT BRIDGE RANGER STATION NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in Sec. 22, T. 37 N., R. 3 W., $\frac{1}{4}$ mile below Bridge Ranger station, 1 mile below mouth of Middle Fork, and 15 miles northwest of Pagosa Springs.

Drainage Area—82.3 square miles.

Records Available—April 1, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 1,060 second feet, May 28, 1938. Gage height 3.90 feet.

Maximum Discharge—Year 1939; 710 second feet, August 28, 1939. Gage height 3.15 feet.

Maximum Discharge—Year 1940; 586 second feet, May 14, 1940. Gage height 2.89 feet.

Accuracy—Records considered good except those for periods of missing gage heights, November 13-15, 1938, and those for ice effect period, November 25, 1938, to April 16, 1939, and November 17, 1939, to March 23, 1940, computed on basis of 2 discharge measurements, weather records and records for Williams and

Weminuchi Creeks near Bridge Ranger Station, and are fair. Period from July 14-20, 22-26, 29-31, August 1-19, September 10-17, 1940, estimated.

Diversions for irrigation above station.

PIEDRA RIVER NEAR DYKE, COLORADO

Location—Water stage recorder in Sec. 5, T. 34 N., R. 4 W. (north of Ute Indian Reservation line), $1\frac{1}{2}$ miles above bridge on U. S. Highway 450 and $8\frac{1}{2}$ miles west of Dyke. Yellowjacket Canon enters 2 miles downstream.

Drainage Area—371 square miles. Zero of gage is 6,585.0 feet above mean sea level.

Records Available—October, 1939, to September 30, 1940.

Maximum Discharge—Year 1940; 1,220 second feet, May 5, 1940. Gage height 4.43 feet.

Accuracy—Records considered excellent except for ice effect period from November 20 to December 3, December 14 to January 27, February 13-14, computed on basis of 1 discharge measurement and record for San Juan River at Pagosa Springs. Record October 1-31, computed on basis of San Juan at Pagosa Springs.

Diversions for irrigation above station.

WILLIAMS CREEK NEAR BRIDGE RANGER STATION NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in Sec. 10, T. 37 N., R. 3 W., at bridge $2\frac{1}{2}$ miles north of Ranger Station, $3\frac{1}{2}$ miles above mouth and 17 miles northwest of Pagosa Springs.

Drainage Area—43.7 square miles.

Records Available—May 1, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 687 second feet, June 29, 1938. Gage height 3.24 feet.

Maximum Discharge—Year 1939; 227 second feet, May 22, 1939. Gage height 2.46 feet.

Maximum Discharge—Year 1940; 222 second feet, May 6, 1940. Gage height 2.22 feet.

Accuracy—Records considered good except for periods of ice effect from November 24, 1938, to April 27, 1939, and from November 29 to April 16, 1940, computed on basis of 2 discharge measurements, weather records and record for Piedra at Bridge Ranger Station and Dyke. For periods of missing gage heights, November 14, 1938, November 16-26, 1939, July 2-6, 8-17, discharges were computed on basis of records for station on Piedra River at Bridge Ranger Station and new Dyke and Weminuche Creek, and these are fair.

WEMINUCHE CREEK NEAR BRIDGE RANGER STATION NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in Sec. 5, T. 37 N., R. 3 W., $3\frac{1}{2}$ miles northwest of Bridge Ranger Station, 5 miles above mouth and 19 miles northwest of Pagosa Springs.

Drainage Area—53.4 square miles.

Records Available—April 1, 1937, to September 30, 1940.

Maximum discharge observed during period 1937-40; 651 second feet, June 29, 1938. Gage height 4.73 feet.

Maximum Discharge—Year 1939; 290 second feet, May 10, 1939. Gage height 3.34 feet.

Maximum Discharge—Year 1940; 232 second feet, May 5, 1940. Gage height 3.11 feet.

Accuracy—Records considered good, except for period of missing gage heights or ice periods, November 23-26, December 7-10, December 14, 1938, to March 31, 1939, and November 12 to March 29, 1940, computed on basis of 2 discharge measurements and records of Piedra River near Dyke, and on weather records. Record from April 27 to May 2, 1940, estimated by comparison with Piedra Station at Dyke.

A few diversions for irrigation above station.

LOS PINOS RIVER BELOW SNOWSLIDE CANON NEAR WEMINUCHE PASS, COLORADO

Location—Water stage recorder in Sec. 5, T. 39 N., R. 4 W., $3\frac{1}{4}$ miles south of Weminuche Pass and 7 miles south of Rio Grande Reservoir.

Drainage Area—23.8 square miles.

Records Available—October, 1937, to September 30, 1940. June 7 to October, 1937, at site approximately 2 miles upstream.

Maximum discharge observed during period 1937-1940; 650 second feet, May 29, 1938. Gage height 3.26 feet.

Maximum Discharge—Year 1939; 300 second feet, May 10, 1939. Gage height 2.32 feet.

Maximum Discharge—Year 1940; 217 second feet, May 13, 1940. Gage height 2.04 feet.

Accuracy—Records considered excellent except record for April, 1939, estimated, and April 1 to May 9, 1940, computed on basis of record for Weminuche Creek near Bridge Ranger Station.

Trans-mountain diversion above station to Rio Grande basin.

PINE OR LOS PINOS RIVER NEAR BAYFIELD,
COLORADO

Location—Water stage recorder in Sec. 26, T. 36 N., R. 7 W., 9 miles north of Bayfield and $\frac{1}{4}$ mile below Red Creek.

Drainage Area—284 square miles. Zero of gage is 7,415.08 feet above mean sea level.

Records Available—October 26, 1927, to September 30, 1940.

Maximum mean daily discharge observed during period 1927-1940; 5,070 second feet, May 26, 1926. (Greatest known flood occurred October 5, 1911. Discharge not determined.)

Maximum Discharge—Year 1939; 1,410 second feet, May 11, 1939. Gage height 3.98 feet.

Maximum Discharge—Year 1940; 1,100 second feet, May 17, 1940. Gage height 3.68 feet.

Accuracy—Records considered excellent except those for period of missing gage heights, October 29, November 25, 1938, computed on basis of 1 discharge measurement and for periods of ice effect, December 5-10, 1938, February 3, 6, February 10-26, 1939, and March 17-18, computed on basis of 1 discharge measurement and records for Animas River at Durango, and are good.

Diversions for irrigation above station. Natural regulation by numerous lakes. Vallecitos dam constructed about $\frac{3}{4}$ mile upstream; capacity 129,700 acre-feet, began storage April 18, 1940.

PINE OR LOS PINOS RIVER AT IGNACIO, COLORADO

Location—Water stage recorder in Sec. 5, T. 33 N., R. 7 W., $\frac{3}{4}$ mile above Ignacio and about 2 miles above Rock Creek.

Drainage Area—448 square miles.

Records Available—April 22, 1899, to October 31, 1903; September 1, 1910, to November 30, 1912; March 10, 1913, to September 30, 1940.

Maximum discharge observed during period 1910-14, 1930-40; 5,570 second feet, August 27, 1932. Gage height 6.19 feet.

Maximum Discharge—Year 1939; 1,060 second feet, May 11, 1939. Gage height 3.53 feet.

Maximum Discharge—Year 1940; 754 second feet, May 17, 1940. Gage height 3.12 feet.

Accuracy—Records considered good except those for period of ice effect, December 29, 1938, to January 6, 1939, January 14-21, January 25 to March 12, 1939, and for missing gage height July 28, which were computed on basis of 6 discharge measurements, weather records and records Animas River at Farmington, N. M., and are fair. Records for period of ice effect December 20, 1939, to February 3, 1940, February 6, 9, 10, 13, and

for periods of missing gage heights October 15-20, November 9, 1940, computed on above basis and 5 discharge measurements, and are poor.

Diversions for irrigation above station.

ANIMAS RIVER AT HOWARDSVILLE, COLORADO

Location—Water stage recorder in Sec. 12, T. 41 N., R. 7 W., 0.4 miles southwest of Howardsville, and $\frac{1}{2}$ mile below mouth of Cunningham Creek.

Drainage Area—55.9 square miles. Zero of gage is 9,616.98 feet above mean sea level. Datum lowered 1 ft. August 18, 1939.

Records Available—May 1, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 1,700 second feet, June 21, 1938. Gage height 3.50 feet.

Maximum Discharge—Year 1939; 662 second feet, June 4, 1939. Gage height 1.87 feet.

Maximum Discharge—Year 1940; 800 second feet, May 31, 1940. Gage height 3.10 feet.

Accuracy—Records considered excellent except for periods of missing gage heights and ice effect, October 5-10, November 7, 13-14, 17-30, 1938, April 1-30, 1939, and December 25-30, January 7-11, 1940, January 13-20, 22-24, 28, which were computed on basis of 1 discharge measurement and records for adjacent station.

No diversions above station.

ANIMAS RIVER AT DURANGO, COLORADO

Location—Water stage recorder in Sec. 20, T. 35 N., R. 9 W., at Western Colorado Power Company's plant in Durango, and $\frac{1}{2}$ mile above mouth of Lightner Creek.

Drainage Area—692 square miles. Zero of gage is 6,503.28 feet above mean sea level.

Records Available—June 20, 1895, to December 31, 1905; January 1, 1910 to September 30, 1940.

Maximum discharge observed during period 1895-1905, 1910-1940; about 25,000 second feet, October 5, 1911. Gage height 13.6 feet, from rating curve extended above 7,000 second feet.

Maximum Discharge—Year 1939; 2,750 second feet, May 22, 1939. Gage height 4.08 feet.

Maximum Discharge—Year 1940; 3,170 second feet, May 15, 1940. Gage height 4.43 feet.

Accuracy—Records considered excellent except those for period of ice effect, February 3, 5-8, 10-14, 1939, and for missing gage heights February 22 to March 5, 1940, and which are good.

Diversions for irrigation above station. Regulation of flow for power and by numerous lakes.

MINERAL CREEK NEAR SILVERTON, COLORADO

Location—Water stage recorder in Sec. 13, T. 41 N., R. 8 W., 300 feet above mouth of Bear Creek and 2 miles west of Silverton.

Drainage Area—43.9 square miles.

Records Available—May 1, 1936, to September 30, 1940.

Maximum discharge observed during period 1936-40; 1,700 second feet, June 29, 1938. Gage height 4.69 feet.

Maximum Discharge—Year 1939; 510 second feet, June 4, 1939. Gage height 2.92 feet.

Maximum Discharge—Year 1940; 660 second feet, May 31, 1940. Gage height 3.23 feet.

Accuracy—Records are good except those for periods of missing gage heights, October 7-10, 1938, March 1-10, March 14 to April 22, 1939, computed on basis of records for adjacent station, and are fair. Records for period of ice effect January 14-24, 1940, and January 29 to February 17, 1940, computed on basis of 1 discharge measurement and records for adjacent stations, and are fair.

No diversions above station.

CASCADE CREEK NEAR TACOMA, COLORADO

Location—Water stage recorder in Sec. 11, T. 39 N., R. 9 W., near Power Company caretaker's house where Durango-Silverton U. S. Highway No. 550 crosses Cascade Creek, 10 miles north of Tacoma.

Drainage Area—26.8 square miles. Altitude, 8,853 feet above mean sea level.

Records Available—January 1, 1915, to September 30, 1940.

Complete records furnished by the Western Colorado Power Company.

No diversions above station. Flow in flume combined with flow over diversion dam to get total flow in creek. Staff gage read twice daily.

LIGHTNER CREEK NEAR DURANGO, COLORADO

Location—Water stage recorder in Sec. 30, T. 35 N., R. 9 W., ½ mile above northwest edge of Durango. Moved to this location October 1, 1939, to replace station 2 miles upstream. Flow comparable.

Drainage Area—66 square miles.

Records Available—July 1, 1927, to September 30, 1940.

Maximum discharge observed during period 1927-1938; 1,830 second feet, June 26, 1937, by slope-area method. Gage height 5.00 feet, from flood marks.

Maximum Discharge—Year 1939; 590 second feet, September 8, 1939. Gage height 2.80 feet.

Maximum Discharge—Year 1940; 322 second feet, August 24, 1940. Gage height 2.92 feet.

Accuracy—Records considered fair. Those for period of missing gage heights, October 23 to November 3, November 12-14, 25-31, 1938, and March 1-8, 1939, and for ice effect periods, November 13-20, December 27-31, 1939, and from March 1-5, 1940, were estimated, and are poor.

Diversions for irrigation above station.

FLORIDA RIVER NEAR DURANGO, COLORADO

Location—Water stage recorder in Sec. 4, T. 35 N., R. 8 W., 10½ miles northeast of Durango and just below mouth of Red Creek. During period of record this station has been located at several different sites in same vicinity. Prior to October 1, 1934, station was located ¼ mile downstream; different datum. All records are comparable.

Drainage Area—96 square miles. Zero of gage is 7,301.88 feet above mean sea level. Revised.

Records Available—May 21 to July 31, 1899; April 1, 1901, to October 5, 1903; September 8, 1910, to September 30, 1924; April 1, 1927, to September 30, 1940.

Maximum discharge observed during period 1899, 1901-3, 1910-24, 1927-40; 4,640 second feet, June 28, 1927. Gage height 4.50 feet, former site and datum. Greatest known flood occurred October 5, 1911. (Discharge not determined.)

Maximum Discharge—Year 1939; 531 second feet, May 10, 1939. Gage height 2.68 feet.

Maximum Discharge—Year 1940; 565 second feet, May 14, 1940. Gage height 2.75 feet.

Accuracy—Records considered good except for periods of ice effect and missing gage heights, November 14, 1938, to March 22, 1939, and November 25, 1939, to March 18, 1940, which were computed on basis of 5 discharge measurements, weather records, and records for Los Pinos River near Bayfield, and are fair.

Diversions for irrigation above station.

LA PLATA RIVER AT HESPERUS, COLORADO

Location—Water stage recorder in Sec. 14, T. 35 N., R. 11 W., at weir ¼ mile west of Hesperus.

Drainage Area—37 square miles. Zero of gage is 8,106.55 feet above mean sea level.

Records Available—June 15 to August 11, 1904; April 1, 1906, to August 11, 1908; August 24 to December 31, 1910; May 25, 1917, to September 30, 1940.

Maximum discharge observed during period 1904, 1906, 1910, 1917-40; 1,460 second feet, June 28, 1927. Gage height 4.60 feet, former datum.

Maximum Discharge—Year 1939; 206 second feet, May 9, 1939. Gage height 1.66 feet.

Maximum Discharge—Year 1940; 250 second feet, May 15, 1940. Gage height 1.80 feet.

Accuracy—Records considered good except those for periods of ice effect, November 23, 1938, to March 23, 1939, and December 19, 1939, to March 20, 1940, which were computed on basis of 10 and 5 discharge measurements, respectively, and weather records, and are fair.

Diversions for irrigation above station.

LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE

Location—Water stage recorder in Sec. 10, T. 32 N., R. 13 W., 300 feet south of Colorado-New Mexico State Line at Hill ranch and 3 miles north of Pendleton, New Mexico.

Drainage Area—331 square miles. Zero of gage is 5,975.15 feet above mean sea level.

Records Available—February 19, 1920, to September 30, 1940.

Maximum discharge observed during period 1920-40; 4,750 second feet, August 24, 1927. Gage height 11.36 feet (revised, present datum).

Maximum Discharge—Year 1939; 792 second feet, September 10, 1939. Gage height 4.05 feet.

Maximum Discharge—Year 1940; 1,460 second feet, August 24, 1940. Gage height 5.83 feet.

Accuracy—Records considered good except those for periods of ice effect January 17, 1939, to March 3, 1939, computed on basis of 4 discharge measurements and weather records, and those for October 21-26, 1938, estimated. Records for ice effect period December 27, 1939, to January 31, 1940, computed on basis of 2 discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

CHERRY CREEK NEAR RED MESA, COLORADO

Location—Water stage recorder in Sec. 7, T. 33 N., R. 12 W., ½ mile above mouth and 2 miles northwest of Red Mesa.

Drainage Area—66 square miles.

Records Available—March 21, 1928, to September 30, 1940.

Maximum discharge observed during period 1928-1940; 1,480 second feet, August 25, 1940. Gage height 5.90 feet.

Maximum Discharge—Year 1939; 116 second feet, March 21-22, 1939. Gage height 1.82 feet.

Maximum Discharge—Year 1940; 1,480 second feet, August 25, 1940. Gage height 5.90 feet.

Accuracy—Records considered poor. Those for periods of missing gage heights, October 1-8, 26-28, 1938, November 15-17, 24-31, and March 1-16, 1939, and November 22-31, March 1-13, 1940, were computed on basis of discharge measurements and weather records.

Diversions for storage and irrigation above station.

EAST MANCOS RIVER NEAR MANCOS, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 24, T. 36 N., R. 13 W., 800 feet above mouth and 4 miles northeast of Mancos.

Drainage Area—11.1 square miles.

Records Available—March 1, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 145 second feet, April 28, 1938. Gage height 1.46 feet.

Maximum Discharge—Year 1939; 50 second feet, May 9, 1939. Gage height 1.00 feet.

Maximum Discharge—Year 1940; 90 second feet, May 15, 1940. Gage height 1.23 feet.

Accuracy—Records considered good.

Diversions for irrigation above station.

MIDDLE MANCOS RIVER NEAR MANCOS, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ of Sec. 13, T. 36 N., R. 13 W., just above bridge on road to Red Arrow Mine, 500 feet above mouth and 4 miles northeast of Mancos.

Drainage Area—13.7 square miles.

Records Available—March 1, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 131 second feet, May 17, 1938. Gage height 2.64 feet.

Maximum Discharge—Year 1939; 33 second feet, April 22, 1939. Gage height 1.91 feet.

Maximum Discharge—Year 1940; 47 second feet, May 4, 1940. Gage height 2.12 feet.

Accuracy—Records considered fair except for periods from April 24, 1939, to May 4, July 19 to 28, December 15-31, 1939, and March 1-13, 1940, which were computed on basis of records for East and West Mancos River near Mancos.

Diversions for irrigation above station.

WEST MANCOS RIVER NEAR MANCOS, COLORADO

Location—Water stage recorder in Sec. 14, T. 36 N., R. 13 W., $1\frac{1}{2}$ miles above mouth and $3\frac{1}{2}$ miles northeast of Mancos.

Drainage Area—42.1 square miles.

Records Available—April 26, 1938, to September 30, 1940.

Maximum discharge observed during period 1938-40; 380 second feet, June 29, 1938. Gage height 2.93 feet.

Maximum Discharge—Year 1939; 133 second feet, May 1, 1939. Gage height 1.99 feet.

Maximum Discharge—Year 1940; 247 second feet, May 17, 1940. Gage height 2.49 feet.

Accuracy—Records considered good except those for ice effect period, November 8-31, 1938, March 1-22, 1939, which were computed by comparison of records of East and Middle Mancos river near Mancos, and are fair.

Diversions for irrigation above station.

MANCOS RIVER NEAR TOWAOC, COLORADO

Location—Water stage recorder in Sec. 18, T. 32 N., R. 17 W., near timber highway bridge on U. S. Highway 84 and 12 miles south of Towaoc, and 28 miles south of Cortez. This station was moved to the highway bridge March 16, 1940. Records are comparable with those at former location.

Drainage Area—550 square miles. Zero of the gage is 5,051.17 feet above mean sea level.

Records Available—February, 1921, to September 30, 1940.

Maximum discharge observed during period 1921-40; 4,900 second feet, August 26, 1934, by slope-area method. Gage height 6.55 feet, present datum.

Maximum Discharge—Year 1939; 1,170 second feet, September 10, 1939. Gage height 3.90 feet.

Maximum Discharge—Year 1940; 4,600 second feet, September 22, 1940. Gage height 8.65 feet.

Accuracy—Records considered good except for period of ice effect and missing gage heights, October 23 to November 1, 1939, January 16, 1940, to February 8, and April 23 to May 8, computed on basis of discharge measurements, weather records and comparison La Plata river at State Line.

Discharge of San Juan River Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1939.

| Day | Sept. 1938 | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|---------------|------|------|------|------|------|------|-------|-------|-------|------|------|-------|
| 1.... | 54 | 31 | 35 | 22 | 12 | 9 | 14 | 89 | 381 | 381 | 62 | 36 | 22 |
| 2.... | 84 | 32 | 34 | 20 | 13 | 10 | 14 | 112 | 389 | 365 | 58 | 36 | 21 |
| 3.... | 68 | 30 | 31 | 16 | 13 | 12 | 15 | 134 | 389 | 365 | 56 | 33 | 20 |
| 4.... | 77 | 32 | 32 | 17 | 12 | 12 | 15 | 136 | 385 | 413 | 52 | 31 | 18 |
| 5.... | 81 | 33 | 33 | 18 | 10 | 11 | 16 | 132 | 421 | 401 | 51 | 28 | 20 |
| 6.... | 75 | 40 | 26 | 18 | 11 | 11 | 16 | 138 | 437 | 341 | 48 | 30 | 24 |
| 7.... | 71 | 91 | 22 | 18 | 11 | 11 | 16 | 130 | 385 | 274 | 45 | 33 | 34 |
| 8.... | 91 | 110 | 33 | 17 | 12 | 11 | 16 | 150 | 389 | 264 | 42 | 29 | 59 |
| 9.... | 57 | 80 | 33 | 19 | 11 | 10 | 17 | 193 | 413 | 250 | 42 | 26 | 46 |
| 10.... | 63 | 67 | 28 | 21 | 11 | 11 | 18 | 175 | 449 | 250 | 39 | 26 | 41 |
| 11.... | 178 | 59 | 26 | 23 | 10 | 11 | 19 | 141 | 433 | 247 | 36 | 24 | 118 |
| 12.... | 214 | 53 | 25 | 18 | 9 | 11 | 20 | 143 | 417 | 232 | 35 | 22 | 75 |
| 13.... | 146 | 53 | 28 | 14 | 10 | 12 | 22 | 160 | 425 | 226 | 33 | 22 | 72 |
| 14.... | 110 | 53 | 30 | 13 | 10 | 12 | 25 | 163 | 405 | 217 | 32 | 23 | 104 |
| 15.... | 91 | 59 | 31 | 15 | 11 | 11 | 28 | 141 | 377 | 187 | 33 | 22 | 116 |
| 16.... | 91 | 72 | 30 | 17 | 11 | 11 | 32 | 122 | 325 | 155 | 32 | 20 | 83 |
| 17.... | 75 | 70 | 29 | 16 | 11 | 12 | 44 | 110 | 285 | 141 | 30 | 21 | 71 |
| 18.... | 64 | 57 | 28 | 14 | 11 | 12 | 54 | 108 | 325 | 122 | 29 | 22 | 57 |
| 19.... | 57 | 52 | 27 | 16 | 10 | 12 | 62 | 128 | 445 | 106 | 28 | 21 | 59 |
| 20.... | 54 | 49 | 27 | 15 | 10 | 11 | 72 | 158 | 469 | 94 | 26 | 20 | 50 |
| 21.... | 52 | 46 | 26 | 16 | 11 | 11 | 78 | 229 | 453 | 91 | 26 | 22 | 45 |
| 22.... | 48 | 44 | 24 | 15 | 11 | 12 | 83 | 285 | 469 | 91 | 26 | 22 | 40 |
| 23.... | 45 | 41 | 18 | 13 | 11 | 13 | 96 | 285 | 441 | 94 | 24 | 19 | 37 |
| 24.... | 43 | 38 | 18 | 11 | 10 | 13 | 114 | 232 | 397 | 91 | 24 | 18 | 35 |
| 25.... | 41 | 37 | 19 | 12 | 10 | 13 | 102 | 196 | 341 | 85 | 22 | 20 | 36 |
| 26.... | 39 | 36 | 19 | 13 | 10 | 12 | 106 | 190 | 297 | 78 | 24 | 25 | 57 |
| 27.... | 36 | 36 | 19 | 12 | 11 | 13 | 100 | 220 | 309 | 75 | 35 | 39 | 58 |
| 28.... | 36 | 35 | 20 | 13 | 11 | 13 | 78 | 278 | 321 | 70 | 43 | 39 | 53 |
| 29.... | 33 | 33 | 20 | 13 | 11 | .... | 65 | 349 | 333 | 68 | 46 | 36 | 53 |
| 30.... | 33 | 33 | 21 | 14 | 10 | .... | 60 | 362 | 349 | 65 | 47 | 26 | 42 |
| 31.... | 33 | .... | 13 | 10 | .... | .... | 65 | .... | 361 | .... | 46 | 24 | .... |
| Total | 2206 | 1535 | 792 | 492 | 335 | 323 | 1482 | 5388 | 12015 | 5839 | 1172 | 815 | 1566 |
| Mean... | 73.5 | 49.5 | 26.4 | 15.9 | 10.8 | 11.5 | 47.8 | 180 | 388 | 195 | 37.8 | 26.3 | 52.2 |
| Max.... | 214 | 110 | 35 | 23 | 13 | 13 | 114 | 361 | 469 | 413 | 62 | 39 | 118 |
| Min.... | 32 | 30 | 18 | 11 | 9 | 9 | 14 | 89 | 285 | 65 | 22 | 18 | 18 |
| Acre-ft. | 4380 | 3040 | 1570 | 976 | 664 | 641 | 2940 | 10690 | 23830 | 11580 | 2320 | 1620 | 3116 |

Total run-off for water year 1938-39=62,980 acre-feet.

Discharge of San Juan River Near Pagosa Springs, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|------|------|-------|-------|------|------|-------|
| 1.... | 39 | 20 | 8.2 | 8.0 | 8.2 | 14 | 64 | 142 | 381 | 73 | 22 | 26 |
| 2.... | 35 | 19 | 8.6 | 7.7 | 7.6 | 12 | 62 | 178 | 381 | 64 | 21 | 28 |
| 3.... | 33 | 18 | 9.0 | 8.5 | 8.2 | 12 | 61 | 257 | 345 | 57 | 19 | 35 |
| 4.... | 31 | 17 | 9.6 | 9.0 | 8.5 | 11 | 59 | 353 | 317 | 54 | 17 | 28 |
| 5.... | 27 | 18 | 9.1 | 9.1 | 7.3 | 12 | 77 | 365 | 289 | 51 | 16 | 24 |
| 6.... | 26 | 19 | 8.6 | 7.6 | 6.6 | 12 | 76 | 365 | 274 | 51 | 26 | 22 |
| 7.... | 26 | 18 | 8.8 | 6.0 | 6.6 | 11 | 74 | 369 | 250 | 44 | 33 | 22 |
| 8.... | 33 | 16 | 8.6 | 6.8 | 6.4 | 13 | 76 | 349 | 232 | 41 | 33 | 24 |
| 9.... | 32 | 18 | 9.2 | 7.9 | 6.2 | 16 | 77 | 329 | 211 | 39 | 23 | 20 |
| 10.... | 29 | 15 | 9.0 | 7.9 | 6.6 | 18 | 80 | 369 | 185 | 37 | 19 | 19 |
| 11.... | 26 | 14 | 8.5 | 7.3 | 8.0 | 16 | 87 | 369 | 170 | 37 | 19 | 19 |
| 12.... | 25 | 14 | 8.0 | 7.3 | 7.2 | 14 | 95 | 361 | 160 | 40 | 17 | 19 |
| 13.... | 24 | 13 | 6.8 | 6.6 | 7.0 | 13 | 120 | 401 | 160 | 39 | 16 | 42 |
| 14.... | 23 | 11 | 7.4 | 6.5 | 8.0 | 19 | 150 | 453 | 170 | 45 | 17 | 31 |
| 15.... | 21 | 10 | 7.9 | 6.6 | 9.4 | 18 | 195 | 449 | 160 | 39 | 18 | 28 |
| 16.... | 20 | 9.6 | 8.5 | 7.0 | 9.0 | 24 | 175 | 445 | 147 | 43 | 19 | 24 |
| 17.... | 19 | 9.5 | 8.0 | 7.7 | 8.2 | 29 | 130 | 490 | 140 | 36 | 18 | 27 |
| 18.... | 19 | 9.5 | 7.9 | 8.0 | 9.0 | 26 | 149 | 508 | 132 | 35 | 16 | 81 |
| 19.... | 18 | 9.6 | 6.5 | 7.8 | 9.5 | 34 | 178 | 409 | 126 | 32 | 17 | 97 |
| 20.... | 18 | 9.6 | 5.5 | 7.9 | 9.2 | 33 | 250 | 369 | 118 | 30 | 30 | 69 |
| 21.... | 17 | 9.6 | 6.4 | 8.6 | 8.5 | 37 | 265 | 313 | 111 | 30 | 52 | 56 |
| 22.... | 16 | 9.5 | 6.7 | 9.3 | 9.4 | 46 | 260 | 305 | 106 | 30 | 54 | 57 |
| 23.... | 16 | 9.3 | 8.2 | 9.1 | 8.8 | 54 | 285 | 309 | 99 | 27 | 42 | 49 |
| 24.... | 15 | 8.9 | 7.8 | 9.2 | 8.2 | 66 | 260 | 313 | 93 | 26 | 83 | 48 |
| 25.... | 18 | 8.8 | 8.6 | 9.4 | 8.2 | 86 | 226 | 305 | 88 | 24 | 75 | 45 |
| 26.... | 29 | 9.3 | 7.0 | 9.1 | 8.5 | 83 | 257 | 325 | 84 | 24 | 62 | 46 |
| 27.... | 20 | 9.2 | 6.0 | 8.5 | 9.1 | 80 | 268 | 357 | 75 | 39 | 52 | 40 |
| 28.... | 20 | 8.6 | 6.5 | 7.3 | 11 | 70 | 205 | 369 | 67 | 36 | 42 | 40 |
| 29.... | 20 | 8.2 | 4.2 | 7.9 | 13 | 62 | 168 | 369 | 76 | 29 | 37 | 48 |
| 30.... | 18 | 8.5 | 7.8 | 9.1 | .... | 57 | 147 | 369 | 99 | 26 | 32 | 64 |
| 31.... | 19 | .... | 8.3 | 9.1 | .... | 60 | .... | 393 | .... | 23 | 29 | .... |
| Total | 732 | 377.7 | 244.2 | 247.8 | 241.4 | 1058 | 4576 | 11077 | 5246 | 1201 | 976 | 1178 |
| Mean... | 23.6 | 12.6 | 7.88 | 7.99 | 8.32 | 34.1 | 153 | 357 | 175 | 38.7 | 31.5 | 39.3 |
| Max.... | 39 | 20 | 9.6 | 9.4 | 13 | 86 | 285 | 508 | 381 | 73 | 83 | 97 |
| Min.... | 15 | 8.2 | 5.5 | 6.0 | 6.2 | 11 | 59 | 142 | 67 | 23 | 16 | 19 |
| Acre-ft. | 1450 | 749 | 484 | 492 | 479 | 2100 | 9080 | 21970 | 10410 | 2380 | 1940 | 2340 |

Total run-off for water year 1939-40=53,870 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of San Juan River at Pagosa Springs, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------------|------|------|------|------|-------|-------|-------|-------|-------|------|------|-------|
| 1.... | 121 | 122 | 82 | 55 | 33 | 48 | 400 | 1020 | 1050 | 150 | 76 | 49 |
| 2.... | 121 | 122 | 77 | 60 | 41 | 44 | 465 | 1100 | 1020 | 140 | 68 | 45 |
| 3.... | 119 | 112 | 64 | 66 | 52 | 49 | 566 | 1040 | 1040 | 130 | 72 | 45 |
| 4.... | 115 | 115 | 74 | 63 | 49 | 52 | 708 | 1000 | 1140 | 122 | 63 | 38 |
| 5.... | 124 | 119 | 71 | 53 | 49 | 46 | 550 | 1090 | 1160 | 117 | 57 | 38 |
| 6.... | 153 | 104 | 71 | 68 | 48 | 46 | 520 | 1160 | 1010 | 104 | 57 | 95 |
| 7.... | 270 | 79 | 66 | 64 | 46 | 49 | 429 | 1020 | 848 | 95 | 88 | 130 |
| 8.... | 412 | 94 | 69 | 64 | 46 | 53 | 483 | 1050 | 790 | 92 | 68 | 164 |
| 9.... | 267 | 106 | 63 | 63 | 45 | 52 | 608 | 1150 | 736 | 90 | 55 | 166 |
| 10.... | 229 | 103 | 69 | 57 | 41 | 53 | 510 | 1290 | 715 | 82 | 53 | 140 |
| 11.... | 215 | 95 | 71 | 49 | 46 | 50 | 396 | 1300 | 701 | 76 | 52 | 342 |
| 12.... | 190 | 97 | 69 | 44 | 46 | 53 | 404 | 1220 | 650 | 72 | 46 | 258 |
| 13.... | 195 | 74 | 63 | 46 | 48 | 60 | 442 | 1060 | 614 | 66 | 44 | 276 |
| 14.... | 200 | 94 | 45 | 46 | 48 | 72 | 465 | 970 | 560 | 61 | 46 | 350 |
| 15.... | 208 | 103 | 61 | 46 | 45 | 95 | 396 | 911 | 496 | 64 | 43 | 372 |
| 16.... | 240 | 97 | 79 | 52 | 48 | 119 | 328 | 866 | 412 | 63 | 41 | 264 |
| 17.... | 249 | 94 | 74 | 52 | 45 | 142 | 295 | 736 | 357 | 55 | 40 | 240 |
| 18.... | 213 | 80 | 54 | 53 | 46 | 187 | 289 | 798 | 315 | 53 | 40 | 208 |
| 19.... | 197 | 90 | 74 | 48 | 48 | 225 | 335 | 1050 | 279 | 53 | 40 | 180 |
| 20.... | 182 | 92 | 64 | 48 | 46 | 270 | 404 | 1230 | 252 | 48 | 37 | 164 |
| 21.... | 175 | 87 | 68 | 54 | 45 | 320 | 608 | 1220 | 232 | 46 | 41 | 142 |
| 22.... | 168 | 87 | 63 | 53 | 44 | 440 | 766 | 1240 | 215 | 45 | 48 | 132 |
| 23.... | 159 | 58 | 52 | 49 | 45 | 600 | 822 | 1220 | 215 | 46 | 39 | 115 |
| 24.... | 150 | 54 | 41 | 45 | 46 | 540 | 656 | 1040 | 208 | 42 | 37 | 106 |
| 25.... | 144 | 58 | 48 | 44 | 49 | 478 | 555 | 902 | 190 | 42 | 35 | 103 |
| 26.... | 140 | 57 | 55 | 46 | 50 | 494 | 510 | 790 | 178 | 41 | 44 | 134 |
| 27.... | 134 | 63 | 48 | 48 | 48 | 494 | 602 | 848 | 166 | 50 | 79 | 159 |
| 28.... | 130 | 66 | 57 | 53 | 46 | 339 | 782 | 893 | 161 | 76 | 97 | 130 |
| 29.... | 124 | 69 | 54 | 48 | .... | 315 | 930 | 920 | 150 | 85 | 146 | 136 |
| 30.... | 122 | 77 | 54 | 45 | .... | 289 | 990 | 980 | 159 | 95 | 77 | 112 |
| 31.... | 119 | .... | 58 | 44 | .... | 318 | .... | 980 | .... | 85 | 60 | .... |
| Total | 5585 | 2668 | 1958 | 1626 | 1289 | 6392 | 16214 | 32094 | 16019 | 2386 | 1789 | 4833 |
| Mean. | 180 | 88.9 | 63.2 | 52.5 | 46.0 | 206 | 540 | 1035 | 534 | 77.0 | 57.7 | 161 |
| Max. | 412 | 122 | 82 | 68 | 52 | 600 | 990 | 1300 | 1160 | 150 | 146 | 372 |
| Min. | 115 | 54 | 41 | 44 | 33 | 44 | 289 | 736 | 150 | 41 | 35 | 38 |
| Acre-ft. 11080 | 5290 | 3880 | 3230 | 2560 | 12680 | 32160 | 63660 | 31770 | 4730 | 3550 | 9590 | |

Total run-off for water year 1938-39=184,200 acre-ft.

Discharge of San Juan River at Pagosa Springs, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------------|------|------|------|------|------|-------|-------|-------|-------|------|------|-------|
| 1.... | 103 | 74 | 38 | 36 | 45 | 71 | 221 | 376 | 1150 | 187 | 63 | 72 |
| 2.... | 94 | 74 | 40 | 35 | 41 | 63 | 208 | 496 | 1080 | 155 | 58 | 69 |
| 3.... | 88 | 69 | 40 | 38 | 39 | 60 | 180 | 798 | 1000 | 138 | 52 | 94 |
| 4.... | 84 | 69 | 45 | 40 | 44 | 60 | 173 | 1110 | 920 | 128 | 48 | 79 |
| 5.... | 79 | 69 | 44 | 39 | 41 | 63 | 195 | 1190 | 839 | 126 | 44 | 66 |
| 6.... | 77 | 74 | 40 | 39 | 37 | 61 | 195 | 1160 | 758 | 121 | 63 | 60 |
| 7.... | 74 | 71 | 41 | 33 | 41 | 58 | 187 | 1140 | 674 | 106 | 77 | 58 |
| 8.... | 97 | 66 | 40 | 35 | 41 | 63 | 192 | 1060 | 602 | 99 | 68 | 57 |
| 9.... | 92 | 77 | 42 | 40 | 39 | 79 | 197 | 980 | 525 | 90 | 52 | 53 |
| 10.... | 82 | 68 | 43 | 40 | 39 | 88 | 205 | 1080 | 442 | 87 | 46 | 53 |
| 11.... | 79 | 66 | 40 | 39 | 41 | 82 | 205 | 1080 | 400 | 85 | 44 | 57 |
| 12.... | 72 | 68 | 38 | 37 | 44 | 69 | 229 | 1040 | 365 | 87 | 41 | 52 |
| 13.... | 71 | 64 | 30 | 32 | 37 | 52 | 298 | 1130 | 353 | 79 | 40 | 82 |
| 14.... | 69 | 58 | 32 | 30 | 40 | 57 | 424 | 1270 | 361 | 87 | 40 | 72 |
| 15.... | 68 | 55 | 32 | 33 | 45 | 77 | 474 | 1290 | 346 | 77 | 44 | 71 |
| 16.... | 66 | 53 | 38 | 37 | 42 | 103 | 396 | 1280 | 318 | 82 | 43 | 58 |
| 17.... | 64 | 53 | 37 | 39 | 38 | 126 | 346 | 1370 | 295 | 76 | 42 | 58 |
| 18.... | 58 | 49 | 36 | 38 | 41 | 119 | 350 | 1340 | 276 | 72 | 39 | 190 |
| 19.... | 57 | 52 | 29 | 40 | 43 | 134 | 483 | 1130 | 267 | 69 | 44 | 357 |
| 20.... | 53 | 48 | 23 | 35 | 41 | 144 | 680 | 1020 | 249 | 64 | 71 | 255 |
| 21.... | 50 | 52 | 28 | 40 | 36 | 168 | 798 | 902 | 240 | 68 | 99 | 190 |
| 22.... | 50 | 50 | 28 | 37 | 43 | 210 | 782 | 848 | 258 | 64 | 94 | 218 |
| 23.... | 50 | 48 | 37 | 36 | 44 | 249 | 857 | 920 | 249 | 61 | 82 | 192 |
| 24.... | 49 | 45 | 34 | 40 | 43 | 279 | 830 | 930 | 210 | 60 | 157 | 173 |
| 25.... | 54 | 43 | 39 | 40 | 44 | 315 | 736 | 950 | 192 | 54 | 182 | 161 |
| 26.... | 95 | 46 | 38 | 40 | 45 | 308 | 766 | 1000 | 182 | 54 | 148 | 161 |
| 27.... | 71 | 49 | 25 | 40 | 50 | 270 | 814 | 1070 | 175 | 84 | 130 | 146 |
| 28.... | 69 | 44 | 27 | 36 | 53 | 246 | 614 | 1110 | 155 | 140 | 103 | 142 |
| 29.... | 76 | 41 | 32 | 37 | 61 | 208 | 483 | 1120 | 155 | 90 | 95 | 202 |
| 30.... | 71 | 41 | 35 | 40 | .... | 192 | 404 | 1130 | 240 | 77 | 84 | 270 |
| 31.... | 76 | .... | 37 | 41 | .... | 218 | .... | 1160 | .... | 74 | 74 | .... |
| Total | 2238 | 1736 | 1108 | 1162 | 1238 | 4292 | 12922 | 32480 | 13276 | 2841 | 2267 | 3768 |
| Mean. | 72.2 | 57.9 | 35.7 | 37.5 | 42.7 | 138 | 431 | 1048 | 443 | 91.6 | 73.1 | 126 |
| Max. | 103 | 77 | 45 | 41 | 61 | 315 | 857 | 1370 | 1150 | 187 | 182 | 357 |
| Min. | 49 | 41 | 23 | 30 | 36 | 52 | 173 | 376 | 155 | 54 | 39 | 52 |
| Acre-ft. 4440 | 3440 | 2200 | 2300 | 2460 | 8510 | 25630 | 64420 | 26330 | 5640 | 4500 | 7470 | |

Total run-off for water year 1939-40=157,300 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of San Juan River at Rosa, New Mexico, for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|------|------|-------|--------|--------|-------|-------|-------|-------|
| 1.... | 352 | 398 | 240 | 170 | 120 | 140 | 1720 | 3020 | 2390 | 430 | 324 | 212 |
| 2.... | 336 | 410 | 250 | 170 | 140 | 140 | 2130 | 3320 | 2320 | 390 | 234 | 186 |
| 3.... | 369 | 392 | 240 | 180 | 110 | 160 | 2390 | 3090 | 2390 | 360 | 186 | 163 |
| 4.... | 369 | 369 | 200 | 200 | 130 | 170 | 3020 | 2940 | 2520 | 330 | 196 | 145 |
| 5.... | 358 | 364 | 230 | 190 | 120 | 150 | 2390 | 3090 | 2730 | 300 | 186 | 142 |
| 6.... | 440 | 369 | 220 | 160 | 130 | 140 | 2390 | 3390 | 2390 | 280 | 168 | 251 |
| 7.... | 1000 | 300 | 210 | 210 | 160 | 160 | 1830 | 2940 | 1890 | 260 | 201 | 315 |
| 8.... | 2420 | 248 | 200 | 190 | 170 | 180 | 1830 | 2870 | 1770 | 230 | 266 | 457 |
| 9.... | 1270 | 319 | 164 | 190 | 140 | 200 | 2200 | 3020 | 1660 | 210 | 212 | 688 |
| 10.... | 987 | 344 | 173 | 180 | 120 | 200 | 2130 | 3320 | 1600 | 200 | 176 | 677 |
| 11.... | 851 | 335 | 192 | 170 | 130 | 190 | 1660 | 3390 | 1600 | 181 | 163 | 1460 |
| 12.... | 771 | 315 | 185 | 150 | 140 | 220 | 1600 | 3240 | 1500 | 172 | 150 | 963 |
| 13.... | 723 | 267 | 179 | 140 | 150 | 270 | 1660 | 2940 | 1410 | 154 | 138 | 938 |
| 14.... | 731 | 224 | 143 | 140 | 140 | 310 | 1770 | 2730 | 1320 | 145 | 128 | 1460 |
| 15.... | 731 | 275 | 167 | 140 | 160 | 370 | 1660 | 2590 | 1170 | 163 | 128 | 1980 |
| 16.... | 779 | 303 | 176 | 130 | 170 | 440 | 1430 | 2460 | 1020 | 218 | 117 | 1130 |
| 17.... | 819 | 299 | 213 | 120 | 170 | 520 | 1240 | 2130 | 892 | 180 | 114 | 938 |
| 18.... | 763 | 267 | 185 | 140 | 160 | 810 | 1150 | 2070 | 787 | 150 | 110 | 806 |
| 19.... | 685 | 238 | 167 | 160 | 150 | 1070 | 1240 | 2590 | 678 | 128 | 110 | 666 |
| 20.... | 626 | 271 | 199 | 180 | 140 | 1500 | 1400 | 3160 | 605 | 114 | 107 | 600 |
| 21.... | 591 | 291 | 188 | 190 | 130 | 1990 | 1830 | 3160 | 538 | 92 | 101 | 526 |
| 22.... | 557 | 267 | 179 | 180 | 140 | 2660 | 2320 | 3240 | 524 | 89 | 110 | 466 |
| 23.... | 524 | 238 | 137 | 170 | 160 | 3780 | 2660 | 3160 | 570 | 104 | 114 | 410 |
| 24.... | 492 | 137 | 125 | 160 | 180 | 3470 | 2200 | 2870 | 570 | 104 | 107 | 374 |
| 25.... | 472 | 150 | 122 | 140 | 170 | 2800 | 1890 | 2460 | 544 | 98 | 95 | 349 |
| 26.... | 460 | 150 | 130 | 130 | 150 | 2660 | 1720 | 2010 | 512 | 73 | 98 | 383 |
| 27.... | 434 | 160 | 130 | 140 | 150 | 2730 | 1830 | 2070 | 466 | 80 | 110 | 644 |
| 28.... | 434 | 180 | 140 | 150 | 150 | 1830 | 2260 | 2130 | 446 | 150 | 308 | 486 |
| 29.... | 416 | 200 | 140 | 140 | .... | 1600 | 2870 | 2200 | 416 | 340 | 673 | 438 |
| 30.... | 404 | 220 | 150 | 120 | .... | 1410 | 2940 | 2320 | 404 | 506 | 410 | 400 |
| 31.... | 404 | .... | 160 | 140 | .... | 1330 | .... | 2320 | .... | 366 | 266 | .... |
| Total | 20568 | 8300 | 5534 | 4970 | 4080 | 33600 | 59360 | 86240 | 37632 | 6597 | 5806 | 18683 |
| Mean. | 663 | 277 | 179 | 160 | 146 | 1084 | 1979 | 2782 | 1254 | 213 | 187 | 623 |
| Max. | 2420 | 410 | 250 | 210 | 180 | 3780 | 2940 | 3390 | 2730 | 506 | 673 | 1980 |
| Min. | 336 | 137 | 122 | 120 | 110 | 140 | 1150 | 2010 | 404 | 73 | 95 | 142 |
| Acre-ft. | 40800 | 16460 | 10980 | 9860 | 8090 | 66640 | 117700 | 171100 | 74640 | 13080 | 11520 | 37060 |

Total run-off for water year 1938-39=577,930 acre-feet.

Discharge of San Juan River at Rosa, New Mexico, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|-------|------|------|-------|-------|-------|--------|-------|-------|-------|-------|
| 1.... | 348 | 232 | 174 | 110 | 170 | 414 | 870 | 1090 | 2430 | 600 | 168 | 223 |
| 2.... | 314 | 232 | 164 | 110 | 210 | 383 | 848 | 1180 | 2260 | 454 | 158 | 218 |
| 3.... | 290 | 238 | 169 | 130 | 230 | 348 | 760 | 1730 | 2020 | 362 | 145 | 218 |
| 4.... | 278 | 232 | 164 | 140 | 200 | 334 | 710 | 2510 | 1860 | 327 | 128 | 234 |
| 5.... | 260 | 227 | 174 | 160 | 180 | 362 | 720 | 2830 | 1690 | 327 | 128 | 212 |
| 6.... | 249 | 244 | 174 | 150 | 160 | 348 | 750 | 2750 | 1540 | 320 | 128 | 190 |
| 7.... | 238 | 244 | 174 | 140 | 140 | 296 | 710 | 2750 | 1390 | 296 | 168 | 176 |
| 8.... | 249 | 238 | 174 | 130 | 160 | 320 | 690 | 2670 | 1230 | 272 | 218 | 172 |
| 9.... | 296 | 244 | 169 | 140 | 160 | 438 | 690 | 2300 | 1170 | 244 | 181 | 163 |
| 10.... | 272 | 272 | 174 | 160 | 150 | 533 | 710 | 2510 | 1000 | 210 | 142 | 150 |
| 11.... | 260 | 244 | 174 | 160 | 150 | 533 | 700 | 2590 | 914 | 196 | 131 | 154 |
| 12.... | 249 | 244 | 169 | 170 | 160 | 362 | 720 | 2510 | 848 | 186 | 138 | 150 |
| 13.... | 249 | 244 | 150 | 140 | 170 | 284 | 870 | 2510 | 804 | 172 | 131 | 163 |
| 14.... | 238 | 222 | 130 | 110 | 150 | 254 | 1180 | 2830 | 826 | 196 | 124 | 206 |
| 15.... | 227 | 210 | 119 | 90 | 180 | 290 | 1510 | 2920 | 837 | 212 | 134 | 181 |
| 16.... | 216 | 200 | 130 | 100 | 170 | 390 | 1350 | 2830 | 793 | 186 | 124 | 176 |
| 17.... | 216 | 196 | 150 | 120 | 160 | 570 | 1200 | 2920 | 771 | 196 | 120 | 168 |
| 18.... | 216 | 192 | 150 | 140 | 150 | 580 | 1160 | 3420 | 700 | 186 | 117 | 245 |
| 19.... | 200 | 196 | 140 | 150 | 170 | 610 | 1280 | 2750 | 660 | 181 | 101 | 734 |
| 20.... | 200 | 187 | 110 | 160 | 160 | 640 | 1790 | 2350 | 640 | 163 | 142 | 770 |
| 21.... | 196 | 192 | 104 | 160 | 180 | 710 | 2240 | 2060 | 560 | 138 | 280 | 537 |
| 22.... | 192 | 180 | 113 | 150 | 210 | 837 | 2180 | 2020 | 580 | 142 | 366 | 516 |
| 23.... | 192 | 190 | 120 | 140 | 205 | 992 | 2350 | 2220 | 670 | 145 | 400 | 537 |
| 24.... | 192 | 187 | 146 | 140 | 249 | 1080 | 2260 | 2080 | 560 | 145 | 579 | 486 |
| 25.... | 192 | 178 | 150 | 150 | 232 | 1140 | 1960 | 2050 | 488 | 142 | 644 | 438 |
| 26.... | 278 | 178 | 120 | 160 | 284 | 1210 | 1870 | 2020 | 462 | 201 | 476 | 457 |
| 27.... | 327 | 187 | 90 | 160 | 320 | 1100 | 2040 | 2200 | 430 | 181 | 410 | 457 |
| 28.... | 254 | 192 | 80 | 160 | 376 | 1090 | 1700 | 2340 | 383 | 308 | 332 | 428 |
| 29.... | 249 | 182 | 90 | 140 | 406 | 870 | 1420 | 2320 | 376 | 273 | 287 | 600 |
| 30.... | 249 | 174 | 100 | 150 | .... | 771 | 1220 | 2320 | 680 | 223 | 266 | 926 |
| 31.... | 227 | .... | 120 | 160 | .... | 837 | .... | 2350 | .... | 196 | 240 | .... |
| Total | 7613 | 6378 | 4365 | 4380 | 5842 | 18926 | 38458 | 73930 | 29572 | 7380 | 7106 | 10285 |
| Mean. | 246 | 213 | 141 | 141 | 201 | 611 | 1282 | 2385 | 986 | 238 | 229 | 343 |
| Max. | 348 | 242 | 174 | 170 | 406 | 1210 | 2350 | 3420 | 2430 | 600 | 644 | 926 |
| Min. | 192 | 174 | 80 | 90 | 140 | 254 | 690 | 1090 | 376 | 138 | 101 | 150 |
| Ac.-ft. | 15100 | 12650 | 8660 | 8690 | 11590 | 37540 | 76280 | 146600 | 58660 | 14640 | 14090 | 20400 |

Total run-off for water year 1939-40=424,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of West Fork of San Juan River Above Borns Lake Near Pagosa Springs, Colo.,
for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|-------|-------|-------|-------|-------|-------|------|------|-------|
| 1..... | 36 | 40 | 22 | 13 | 7.6 | 8.0 | 37 | 210 | 390 | 41 | 22 | 16 |
| 2..... | 35 | 35 | 20 | 14 | 8.0 | 7.8 | 45 | 174 | 380 | 39 | 23 | 15 |
| 3..... | 34 | 36 | 19 | 14 | 9.0 | 8.0 | 52 | 144 | 395 | 38 | 21 | 15 |
| 4..... | 33 | 37 | 20 | 13 | 8.8 | 8.2 | 54 | 187 | 410 | 37 | 20 | 15 |
| 5..... | 40 | 37 | 21 | 12 | 8.6 | 8.2 | 47 | 296 | 415 | 35 | 19 | 23 |
| 6..... | 63 | 31 | 21 | 14 | 8.4 | 8.2 | 43 | 296 | 310 | 32 | 27 | 54 |
| 7..... | 104 | 28 | 21 | 14 | 8.4 | 8.2 | 44 | 228 | 241 | 30 | 29 | 52 |
| 8..... | 100 | 30 | 21 | 13 | 8.2 | 9.0 | 47 | 272 | 228 | 30 | 20 | 61 |
| 9..... | 83 | 35 | 20 | 13 | 8.0 | 9.8 | 63 | 310 | 221 | 30 | 18 | 53 |
| 10..... | 75 | 34 | 18 | 12 | 7.8 | 11 | 57 | 390 | 210 | 28 | 18 | 51 |
| 11..... | 73 | 33 | 17 | 11 | 8.0 | 12 | 50 | 390 | 206 | 26 | 18 | 97 |
| 12..... | 65 | 32 | 19 | 9.6 | 8.2 | 12 | 50 | 345 | 192 | 25 | 16 | 80 |
| 13..... | 73 | 31 | 18 | 10 | 8.4 | 13 | 53 | 306 | 176 | 24 | 16 | 91 |
| 14..... | 75 | 32 | 17 | 10 | 8.2 | 14 | 51 | 221 | 164 | 24 | 16 | 123 |
| 15..... | 76 | 32 | 17 | 10 | 8.0 | 16 | 46 | 214 | 160 | 24 | 15 | 105 |
| 16..... | 84 | 29 | 17 | 11 | 8.2 | 18 | 36 | 214 | 150 | 23 | 16 | 76 |
| 17..... | 78 | 27 | 16 | 11 | 8.0 | 20 | 35 | 192 | 139 | 22 | 15 | 69 |
| 18..... | 66 | 28 | 15 | 11 | 8.0 | 24 | 35 | 232 | 123 | 22 | 15 | 61 |
| 19..... | 61 | 29 | 16 | 10 | 7.6 | 28 | 41 | 360 | 110 | 20 | 15 | 54 |
| 20..... | 60 | 29 | 15 | 10 | 7.4 | 34 | 53 | 420 | 97 | 20 | 15 | 48 |
| 21..... | 61 | 27 | 15 | 10 | 7.2 | 39 | 79 | 450 | 78 | 20 | 18 | 44 |
| 22..... | 59 | 25 | 14 | 10 | 7.4 | 42 | 114 | 445 | 74 | 20 | 18 | 41 |
| 23..... | 55 | 18 | 13 | 10 | 7.4 | 45 | 100 | 405 | 66 | 20 | 16 | 38 |
| 24..... | 52 | 18 | 12 | 9.4 | 7.8 | 39 | 70 | 310 | 60 | 18 | 15 | 35 |
| 25..... | 50 | 18 | 13 | 8.8 | 8.0 | 39 | 57 | 228 | 56 | 18 | 18 | 35 |
| 26..... | 50 | 18 | 14 | 9.2 | 8.2 | 40 | 52 | 221 | 52 | 19 | 19 | 39 |
| 27..... | 48 | 19 | 13 | 9.4 | 8.0 | 33 | 61 | 221 | 49 | 23 | 37 | 38 |
| 28..... | 47 | 20 | 14 | 9.6 | 7.8 | 29 | 73 | 250 | 47 | 25 | 40 | 35 |
| 29..... | 43 | 21 | 13 | 9.2 | ..... | 26 | 87 | 291 | 45 | 25 | 40 | 33 |
| 30..... | 38 | 21 | 13 | 8.4 | ..... | 25 | 108 | 282 | 43 | 26 | 24 | 31 |
| 31..... | 37 | 14 | 7.8 | ..... | ..... | 30 | ..... | 355 | ..... | 24 | 18 | ..... |
| Total | 1854 | 850 | 518 | 337.4 | 224.6 | 664.4 | 1710 | 8855 | 5287 | 808 | 637 | 1528 |
| Mean. | 59.8 | 28.3 | 16.7 | 10.9 | 8.02 | 21.4 | 58.0 | 286 | 176 | 26.1 | 20.5 | 50.9 |
| Max. | 104 | 40 | 22 | 14 | 9.0 | 45 | 114 | 450 | 415 | 41 | 40 | 123 |
| Min. | 33 | 18 | 12 | 7.8 | 7.2 | 7.8 | 35 | 144 | 43 | 18 | 15 | 15 |
| Acre-ft. | 3680 | 1690 | 1030 | 669 | 445 | 1320 | 3450 | 17560 | 10490 | 1600 | 1260 | 3030 |

Total run-off for water year 1938-39=46,220 acre-feet.

Discharge of West Fork San Juan River Above Born's Lake Near Pagosa Springs, Colorado,
for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|------|-------|-------|-------|------|------|-------|
| 1..... | 29 | 24 | ..... | ..... | ..... | 11 | 44 | 63 | 203 | 49 | 23 | 23 |
| 2..... | 28 | 23 | ..... | ..... | ..... | 10 | 41 | 97 | 171 | 45 | 21 | 24 |
| 3..... | 27 | 21 | ..... | ..... | ..... | 10 | 40 | 166 | 158 | 43 | 20 | 30 |
| 4..... | 26 | 20 | ..... | ..... | ..... | 10 | 37 | 224 | 142 | 43 | 18 | 24 |
| 5..... | 24 | 20 | ..... | ..... | ..... | 10 | 39 | 228 | 135 | 42 | 18 | 22 |
| 6..... | 24 | 21 | ..... | ..... | ..... | 11 | 39 | 217 | 123 | 39 | 23 | 20 |
| 7..... | 24 | 19 | ..... | ..... | ..... | 10 | 38 | 210 | 115 | 33 | 21 | 20 |
| 8..... | 32 | 18 | ..... | ..... | ..... | 10 | 39 | 179 | 110 | 30 | 19 | 19 |
| 9..... | 27 | 18 | ..... | ..... | ..... | 12 | 40 | 171 | 99 | 28 | 18 | 18 |
| 10..... | 25 | 18 | ..... | ..... | ..... | 13 | 42 | 187 | 86 | 26 | 17 | 20 |
| 11..... | 24 | 18 | ..... | ..... | ..... | 12 | 43 | 189 | 81 | 26 | 16 | 20 |
| 12..... | 24 | 18 | ..... | ..... | ..... | 12 | 46 | 179 | 75 | 24 | 16 | 21 |
| 13..... | 23 | 17 | ..... | ..... | ..... | 11 | 54 | 206 | 74 | 26 | 15 | 26 |
| 14..... | 23 | 15 | ..... | ..... | ..... | 12 | 70 | 224 | 72 | 26 | 15 | 21 |
| 15..... | 22 | 12 | ..... | ..... | ..... | 13 | 95 | 192 | 69 | 23 | 17 | 21 |
| 16..... | 21 | 12 | ..... | ..... | ..... | 13 | 80 | 187 | 65 | 23 | 16 | 19 |
| 17..... | 20 | 12 | ..... | ..... | ..... | 14 | 74 | 176 | 60 | 22 | 15 | 32 |
| 18..... | 20 | 12 | ..... | ..... | ..... | 16 | 70 | 162 | 58 | 22 | 15 | 90 |
| 19..... | 20 | 12 | ..... | ..... | ..... | 18 | 90 | 146 | 58 | 20 | 24 | 139 |
| 20..... | 18 | 12 | ..... | ..... | ..... | 22 | 124 | 135 | 56 | 21 | 32 | 83 |
| 21..... | 18 | 11 | ..... | ..... | ..... | 27 | 132 | 130 | 68 | 23 | 27 | 63 |
| 22..... | 18 | 11 | ..... | ..... | ..... | 33 | 135 | 146 | 78 | 21 | 24 | 70 |
| 23..... | 18 | 11 | ..... | ..... | ..... | 40 | 142 | 166 | 67 | 20 | 27 | 64 |
| 24..... | 18 | 10 | ..... | ..... | ..... | 46 | 157 | 176 | 57 | 19 | 55 | 58 |
| 25..... | 19 | 9 | ..... | ..... | ..... | 50 | 133 | 184 | 53 | 18 | 47 | 54 |
| 26..... | 17 | 10 | ..... | ..... | ..... | 54 | 156 | 206 | 55 | 23 | 42 | 54 |
| 27..... | 19 | 9 | ..... | ..... | ..... | 50 | 137 | 250 | 49 | 37 | 35 | 51 |
| 28..... | 21 | 8 | ..... | ..... | ..... | 48 | 90 | 263 | 47 | 30 | 30 | 54 |
| 29..... | 21 | 8 | ..... | ..... | ..... | 45 | 70 | 232 | 51 | 29 | 29 | 68 |
| 30..... | 22 | 8 | ..... | ..... | ..... | 40 | 59 | 224 | 65 | 32 | 25 | 68 |
| 31..... | 23 | ..... | ..... | ..... | ..... | 42 | ..... | 224 | ..... | 27 | 26 | ..... |
| Total | 695 | 437 | 248.0 | 232.5 | 246.5 | 725 | 2336 | 5739 | 2600 | 890 | 746 | 1296 |
| Mean. | 22.4 | 14.6 | 8.0 | 7.5 | 8.5 | 23.4 | 77.9 | 185 | 86.7 | 28.7 | 24.1 | 43.2 |
| Max. | 32 | 24 | ..... | ..... | ..... | 54 | 156 | 263 | 203 | 49 | 55 | 139 |
| Min. | 17 | 8 | ..... | ..... | ..... | 10 | 37 | 63 | 47 | 18 | 15 | 18 |
| Acre-ft. | 1380 | 867 | 492 | 461 | 489 | 1440 | 4630 | 11380 | 5160 | 1770 | 1480 | 2570 |

Total run-off for water year 1939-40=32,120 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of West Fork of San Juan River Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1939.

| Day | Sept. 1938 | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------------|------|------|------|------|------|------|-------|-------|-------|------|------|-------|
| 1.... | 38 | 61 | 65 | 38 | 26 | 19 | 20 | 122 | 340 | 522 | 91 | 44 | 35 |
| 2.... | 86 | 61 | 57 | 34 | 28 | 21 | 19 | 142 | 409 | 535 | 83 | 43 | 34 |
| 3.... | 64 | 62 | 58 | 30 | 30 | 25 | 20 | 170 | 360 | 526 | 78 | 47 | 28 |
| 4.... | 120 | 58 | 60 | 35 | 28 | 24 | 20 | 187 | 368 | 575 | 75 | 38 | 26 |
| 5.... | 95 | 66 | 61 | 34 | 26 | 24 | 20 | 173 | 432 | 560 | 70 | 35 | 27 |
| 6.... | 86 | 90 | 51 | 35 | 31 | 24 | 19 | 164 | 463 | 468 | 64 | 46 | 74 |
| 7.... | 89 | 133 | 40 | 35 | 31 | 23 | 18 | 151 | 404 | 422 | 60 | 61 | 90 |
| 8.... | 149 | 164 | 51 | 35 | 30 | 23 | 19 | 167 | 463 | 392 | 58 | 42 | 94 |
| 9.... | 101 | 119 | 53 | 31 | 29 | 23 | 20 | 197 | 517 | 368 | 57 | 36 | 91 |
| 10.... | 86 | 109 | 48 | 29 | 27 | 22 | 22 | 167 | 590 | 356 | 51 | 35 | 80 |
| 11.... | 445 | 102 | 47 | 27 | 25 | 23 | 23 | 144 | 610 | 332 | 48 | 33 | 133 |
| 12.... | 499 | 95 | 46 | 35 | 21 | 23 | 24 | 154 | 560 | 310 | 44 | 29 | 122 |
| 13.... | 324 | 102 | 44 | 47 | 22 | 24 | 30 | 167 | 486 | 302 | 41 | 27 | 138 |
| 14.... | 236 | 104 | 46 | 32 | 22 | 24 | 36 | 167 | 422 | 285 | 40 | 28 | 167 |
| 15.... | 190 | 109 | 47 | 33 | 22 | 22 | 45 | 144 | 400 | 260 | 41 | 27 | 173 |
| 16.... | 170 | 122 | 46 | 35 | 23 | 23 | 54 | 122 | 380 | 230 | 40 | 26 | 131 |
| 17.... | 164 | 124 | 43 | 32 | 24 | 22 | 64 | 108 | 336 | 203 | 36 | 25 | 119 |
| 18.... | 135 | 108 | 40 | 26 | 24 | 23 | 78 | 112 | 396 | 176 | 35 | 25 | 112 |
| 19.... | 120 | 101 | 40 | 30 | 23 | 21 | 90 | 129 | 585 | 151 | 34 | 23 | 98 |
| 20.... | 111 | 95 | 40 | 28 | 23 | 20 | 105 | 151 | 625 | 140 | 32 | 22 | 90 |
| 21.... | 102 | 91 | 38 | 30 | 25 | 19 | 115 | 216 | 605 | 124 | 32 | 23 | 83 |
| 22.... | 97 | 88 | 36 | 27 | 25 | 19 | 120 | 257 | 605 | 115 | 33 | 29 | 75 |
| 23.... | 94 | 86 | 25 | 24 | 24 | 19 | 125 | 260 | 526 | 114 | 34 | 23 | 70 |
| 24.... | 91 | 80 | 26 | 20 | 22 | 20 | 124 | 213 | 450 | 108 | 29 | 21 | 66 |
| 25.... | 87 | 78 | 28 | 22 | 21 | 20 | 124 | 184 | 380 | 104 | 27 | 21 | 62 |
| 26.... | 82 | 75 | 27 | 25 | 22 | 20 | 135 | 176 | 356 | 98 | 28 | 27 | 70 |
| 27.... | 77 | 73 | 30 | 24 | 23 | 20 | 119 | 213 | 400 | 97 | 35 | 47 | 71 |
| 28.... | 73 | 70 | 31 | 26 | 24 | 19 | 97 | 264 | 432 | 94 | 41 | 56 | 66 |
| 29.... | 69 | 65 | 33 | 25 | 23 | .... | 86 | 302 | 468 | 93 | 46 | 79 | 61 |
| 30.... | 64 | 64 | 35 | 26 | 22 | .... | 79 | 306 | 494 | 94 | 46 | 47 | 53 |
| 31.... | 61 | 61 | 27 | 21 | 21 | .... | 93 | .... | 508 | .... | 49 | 40 | .... |
| Total | 4144 | 2816 | 1292 | 937 | 767 | 609 | 1963 | 5429 | 14370 | 8154 | 1478 | 1105 | 2539 |
| Mean. | 138 | 90.8 | 43.1 | 30.2 | 24.7 | 21.8 | 63.3 | 181 | 464 | 272 | 47.7 | 35.6 | 84.6 |
| Max. | 499 | 164 | 65 | 47 | 31 | 25 | 135 | 306 | 625 | 575 | 91 | 79 | 133 |
| Min. | 38 | 58 | 25 | 20 | 21 | 19 | 18 | 108 | 336 | 93 | 27 | 21 | 26 |
| Acree-ft. | 8220 | 5590 | 2560 | 1860 | 1520 | 1210 | 3890 | 10770 | 28510 | 16170 | 2930 | 2190 | 5040 |

Total run-off for water year 1938-39=82,240 acre-feet.

Discharge of West Fork San Juan River Near Pagosa Springs, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 49 | 36 | 20 | 17 | 19 | 26 | 85 | 149 | 448 | 104 | 44 | 42 |
| 2.... | 47 | 36 | 20 | 16 | 20 | 23 | 74 | 191 | 419 | 86 | 40 | 39 |
| 3.... | 43 | 34 | 20 | 17 | 19 | 22 | 71 | 303 | 379 | 77 | 37 | 50 |
| 4.... | 41 | 33 | 21 | 17 | 20 | 21 | 68 | 419 | 335 | 71 | 34 | 43 |
| 5.... | 39 | 33 | 19 | 17 | 21 | 20 | 75 | 471 | 307 | 70 | 32 | 38 |
| 6.... | 39 | 35 | 19 | 16 | 20 | 21 | 75 | 444 | 291 | 66 | 44 | 35 |
| 7.... | 39 | 31 | 18 | 15 | 19 | 21 | 74 | 466 | 264 | 58 | 40 | 33 |
| 8.... | 50 | 30 | 18 | 16 | 19 | 22 | 75 | 427 | 247 | 55 | 36 | 31 |
| 9.... | 42 | 34 | 18 | 17 | 19 | 25 | 80 | 391 | 230 | 52 | 31 | 29 |
| 10.... | 37 | 30 | 18 | 17 | 20 | 27 | 83 | 419 | 205 | 50 | 29 | 32 |
| 11.... | 37 | 30 | 18 | 17 | 21 | 25 | 81 | 431 | 191 | 50 | 28 | 34 |
| 12.... | 35 | 30 | 18 | 16 | 22 | 23 | 85 | 403 | 186 | 48 | 27 | 32 |
| 13.... | 35 | 28 | 17 | 15 | 21 | 21 | 111 | 466 | 180 | 46 | 26 | 42 |
| 14.... | 33 | 26 | 17 | 13 | 20 | 23 | 154 | 538 | 175 | 46 | 27 | 38 |
| 15.... | 31 | 26 | 18 | 15 | 22 | 27 | 164 | 507 | 170 | 41 | 31 | 37 |
| 16.... | 30 | 26 | 18 | 15 | 22 | 33 | 147 | 466 | 164 | 42 | 29 | 33 |
| 17.... | 30 | 25 | 18 | 16 | 21 | 40 | 137 | 484 | 149 | 40 | 27 | 38 |
| 18.... | 28 | 25 | 17 | 16 | 22 | 40 | 140 | 444 | 135 | 37 | 25 | 126 |
| 19.... | 28 | 24 | 16 | 16 | 23 | 48 | 180 | 363 | 132 | 35 | 32 | 200 |
| 20.... | 27 | 24 | 14 | 14 | 22 | 55 | 224 | 335 | 124 | 35 | 49 | 149 |
| 21.... | 26 | 25 | 15 | 15 | 23 | 63 | 244 | 311 | 130 | 38 | 51 | 105 |
| 22.... | 26 | 23 | 16 | 14 | 24 | 78 | 244 | 307 | 142 | 35 | 41 | 122 |
| 23.... | 26 | 23 | 17 | 14 | 25 | 96 | 264 | 319 | 135 | 36 | 39 | 109 |
| 24.... | 26 | 23 | 17 | 15 | 25 | 109 | 264 | 339 | 113 | 35 | 85 | 102 |
| 25.... | 29 | 22 | 17 | 18 | 25 | 122 | 247 | 355 | 102 | 33 | 86 | 96 |
| 26.... | 42 | 21 | 17 | 17 | 24 | 124 | 261 | 375 | 98 | 38 | 75 | 95 |
| 27.... | 32 | 21 | 14 | 17 | 25 | 105 | 264 | 407 | 91 | 62 | 62 | 83 |
| 28.... | 32 | 20 | 15 | 17 | 26 | 96 | 211 | 435 | 80 | 95 | 51 | 85 |
| 29.... | 33 | 19 | 16 | 16 | 28 | 80 | 183 | 444 | 88 | 56 | 50 | 128 |
| 30.... | 31 | 19 | 17 | 16 | .... | 78 | 157 | 453 | 142 | 51 | 44 | 164 |
| 31.... | 34 | .... | 17 | 18 | .... | 89 | .... | 462 | .... | 50 | 42 | .... |
| Total | 1077 | 812 | 540 | 495 | 637 | 1603 | 4522 | 12324 | 5852 | 1638 | 1294 | 2190 |
| Mean. | 34.7 | 27.1 | 17.4 | 16.0 | 22.0 | 51.7 | 151 | 398 | 195 | 52.8 | 41.7 | 73.0 |
| Max. | 50 | 36 | 21 | 18 | 28 | 124 | 264 | 538 | 448 | 104 | 86 | 200 |
| Min. | 26 | 19 | 14 | 13 | 19 | 20 | 68 | 149 | 80 | 33 | 25 | 29 |
| Acree-ft. | 2140 | 1610 | 1070 | 982 | 1260 | 3180 | 8970 | 24440 | 11610 | 3250 | 2570 | 4340 |

Total run-off for water year 1939-40=65,420 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Turkey Creek Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|-------|-------|-------|-------|-------|-------|------|------|--------|------|------|-------|
| 1.... | 8.4 | 8.4 | 7.8 | 7.2 | 6.6 | 8.0 | 26 | 156 | 106 | 5.2 | 1.0 | 2.6 |
| 2.... | 8.1 | 7.8 | 7.4 | 7.6 | 7.4 | 8.2 | 32 | 159 | 98 | 4.3 | 0.9 | 2.6 |
| 3.... | 8.4 | 8.8 | 7.6 | 8.0 | 8.8 | 8.2 | 40 | 122 | 98 | 3.6 | 0.9 | 1.6 |
| 4.... | 7.5 | 9.1 | 8.0 | 7.6 | 9.2 | 7.8 | 61 | 119 | 109 | 2.8 | 1.1 | 1.5 |
| 5.... | 8.1 | 8.8 | 8.2 | 7.2 | 9.0 | 7.6 | 57 | 131 | 101 | 2.8 | 1.0 | 1.4 |
| 6.... | 13 | 7.5 | 8.4 | 8.2 | 8.8 | 7.4 | 57 | 149 | 80 | 2.2 | 1.4 | 9.9 |
| 7.... | 24 | 6.6 | 8.4 | 8.2 | 8.6 | 7.0 | 48 | 128 | 65 | 1.7 | 3.4 | 11 |
| 8.... | 30 | 7.6 | 8.2 | 8.0 | 8.4 | 7.6 | 59 | 134 | 59 | 1.5 | 1.7 | 16 |
| 9.... | 24 | 8.0 | 8.0 | 7.6 | 8.2 | 8.4 | 67 | 152 | 53 | 1.4 | 1.5 | 17 |
| 10.... | 21 | 8.4 | 7.6 | 7.4 | 8.2 | 9.4 | 55 | 175 | 50 | 1.2 | 1.7 | 14 |
| 11.... | 19 | 8.8 | 8.0 | 7.0 | 8.4 | 10 | 43 | 169 | 47 | 1.3 | 1.4 | 44 |
| 12.... | 17 | 8.6 | 8.8 | 6.2 | 8.6 | 11 | 43 | 152 | 41 | 1.3 | 1.3 | 35 |
| 13.... | 18 | 8.6 | 9.6 | 6.4 | 8.8 | 12 | 47 | 125 | 33 | 1.2 | 1.4 | 36 |
| 14.... | 18 | 8.4 | 8.6 | 6.4 | 8.8 | 13 | 47 | 111 | 30 | 1.3 | 1.5 | 38 |
| 15.... | 18 | 8.4 | 8.4 | 6.4 | 8.4 | 14 | 38 | 109 | 26 | 1.1 | 1.4 | 57 |
| 16.... | 19 | 8.2 | 8.4 | 6.8 | 8.6 | 16 | 33 | 98 | 21 | 1.1 | 1.4 | 33 |
| 17.... | 19 | 8.2 | 8.2 | 7.0 | 8.6 | 19 | 31 | 80 | 18 | 0.8 | 1.3 | 26 |
| 18.... | 17 | 8.2 | 7.6 | 7.2 | 8.4 | 24 | 33 | 82 | 15 | 1.0 | 1.3 | 20 |
| 19.... | 15 | 8.4 | 7.8 | 6.8 | 8.2 | 29 | 37 | 111 | 12 | 1.0 | 1.2 | 15 |
| 20.... | 14 | 8.6 | 7.6 | 6.6 | 8.0 | 38 | 55 | 137 | 11 | 0.8 | 1.2 | 12 |
| 21.... | 14 | 8.4 | 7.6 | 7.2 | 7.8 | 49 | 73 | 143 | 9.1 | 0.6 | 3.6 | 10 |
| 22.... | 13 | 8.0 | 7.4 | 7.2 | 7.8 | 51 | 96 | 143 | 8.4 | 0.6 | 4.0 | 9.1 |
| 23.... | 11 | 6.4 | 7.0 | 7.2 | 8.0 | 50 | 91 | 137 | 8.4 | 0.6 | 1.4 | 8.4 |
| 24.... | 11 | 6.0 | 6.8 | 6.8 | 8.2 | 33 | 73 | 111 | 8.4 | 0.5 | 1.3 | 7.2 |
| 25.... | 9.4 | 6.4 | 7.2 | 6.6 | 8.2 | 27 | 65 | 89 | 7.2 | 0.4 | 1.3 | 6.8 |
| 26.... | 9.1 | 6.8 | 7.4 | 6.8 | 8.2 | 28 | 67 | 80 | 6.5 | 0.4 | 1.5 | 9.1 |
| 27.... | 9.4 | 7.2 | 7.2 | 7.2 | 8.0 | 29 | 84 | 89 | 5.7 | 1.1 | 3.0 | 8.8 |
| 28.... | 9.4 | 7.6 | 7.4 | 7.4 | 7.8 | 25 | 103 | 93 | 5.7 | 1.2 | 9.1 | 9.4 |
| 29.... | 8.4 | 7.8 | 7.2 | 7.2 | .... | 23 | 122 | 98 | 6.2 | 1.1 | 1.5 | 9.4 |
| 30.... | 8.4 | 8.0 | 7.6 | 7.0 | .... | 20 | 156 | 101 | 6.2 | 1.0 | 5.5 | 8.8 |
| 31.... | 8.4 | .... | 7.6 | 6.8 | .... | 21 | .... | 103 | .... | 0.9 | 3.6 | .... |
| Total | 438.0 | 238.0 | 243.0 | 221.2 | 232.0 | 621.6 | 1839 | 3786 | 1144.6 | 46.0 | 77.3 | 480.6 |
| Mean. | 14.1 | 7.93 | 7.84 | 7.14 | 8.29 | 20.1 | 61.3 | 122 | 38.2 | 1.48 | 2.49 | 16.0 |
| Max.. | 30 | 9.1 | 9.6 | 8.2 | 9.2 | 51 | 156 | 175 | 109 | 5.2 | 15 | 57 |
| Min.. | 7.5 | 6.0 | 6.8 | 6.2 | 6.6 | 7.0 | 26 | 80 | 5.7 | 0.4 | 0.9 | 1.4 |
| Acree-ft. | 869 | 472 | 482 | 439 | 460 | 1230 | 3650 | 7510 | 2270 | 91 | 153 | 953 |

Total run-off for water year 1938-39=18,580 acre-feet.

Discharge of Turkey Creek Near Pagosa Springs, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|-------|-------|-------|-------|-------|------|------|------|-------|------|------|-------|
| 1.... | 7.5 | 7.8 | 9.9 | 7.5 | 8.5 | 10 | 24 | 55 | 89 | 4.3 | 0.7 | 2.4 |
| 2.... | 7.5 | 9.9 | 9.1 | 7.5 | 8.5 | 10 | 24 | 67 | 80 | 1.8 | .7 | 2.8 |
| 3.... | 7.8 | 9.9 | 9.1 | 7.5 | 8.5 | 10 | 22 | 91 | 69 | 1.1 | .7 | 4.0 |
| 4.... | 7.2 | 9.9 | 8.8 | 7.5 | 8.5 | 10 | 19 | 128 | 61 | .9 | .7 | 3.0 |
| 5.... | 7.2 | 8.4 | 8.8 | 7.5 | 8.5 | 10 | 21 | 128 | 59 | .9 | .7 | 3.0 |
| 6.... | 7.2 | 6.5 | 8.4 | 7.5 | 8.5 | 10 | 21 | 116 | 53 | .9 | 1.3 | 2.8 |
| 7.... | 7.8 | 6.0 | 8.1 | 7.5 | 8.5 | 10 | 19 | 111 | 48 | .7 | 3.2 | 2.8 |
| 8.... | 12 | 5.7 | 9.4 | 7.5 | 8.5 | 10 | 21 | 96 | 43 | .6 | 2.2 | 2.6 |
| 9.... | 10 | 6.2 | 8.4 | 7.5 | 8.5 | 11 | 21 | 89 | 33 | .4 | 2.0 | 2.6 |
| 10.... | 8.4 | 5.5 | 8.1 | 7.5 | 8.5 | 12 | 21 | 93 | 27 | .4 | 1.8 | 2.6 |
| 11.... | 8.4 | 5.2 | 7.8 | 7.5 | 8.5 | 12 | 22 | 89 | 25 | .4 | 1.8 | 2.2 |
| 12.... | 9.1 | 5.2 | 7.8 | 7.5 | 8.5 | 11 | 26 | 82 | 23 | .4 | 1.8 | 1.8 |
| 13.... | 8.1 | 5.0 | 7.4 | 7.5 | 8.5 | 10 | 35 | 89 | 22 | .4 | 1.7 | 1.8 |
| 14.... | 5.5 | 5.2 | 6.5 | 7.5 | 8.5 | 11 | 50 | 98 | 17 | .4 | 1.8 | 1.7 |
| 15.... | 5.0 | 6.5 | 6.2 | 7.5 | 8.5 | 12 | 59 | 89 | 16 | .4 | 2.4 | 1.7 |
| 16.... | 6.8 | 6.2 | 6.3 | 7.5 | 8.5 | 12 | 51 | 84 | 14 | .4 | 2.8 | 1.4 |
| 17.... | 6.5 | 6.2 | 7.8 | 7.5 | 8.5 | 13 | 45 | 91 | 11 | .4 | 2.8 | 1.4 |
| 18.... | 4.8 | 6.0 | 7.2 | 7.5 | 8.5 | 14 | 50 | 80 | 11 | .6 | 2.6 | 7.8 |
| 19.... | 5.0 | 6.0 | 5.7 | 7.5 | 8.5 | 17 | 78 | 59 | 10 | .6 | 2.8 | 3.3 |
| 20.... | 4.3 | 6.0 | 5.2 | 7.5 | 8.5 | 20 | 103 | 50 | 9.9 | .6 | 4.0 | 1.4 |
| 21.... | 4.0 | 6.2 | 5.0 | 7.5 | 8.5 | 23 | 91 | 45 | 9.9 | .5 | 3.8 | 8.4 |
| 22.... | 4.0 | 6.2 | 5.5 | 7.5 | 8.5 | 28 | 98 | 53 | 11 | .5 | 3.0 | 1.8 |
| 23.... | 3.8 | 6.0 | 5.6 | 7.5 | 8.5 | 34 | 91 | 71 | 9.4 | .5 | 4.0 | 1.3 |
| 24.... | 3.6 | 6.0 | 5.6 | 7.5 | 8.5 | 37 | 82 | 69 | 7.2 | .4 | 9.4 | 9.4 |
| 25.... | 4.0 | 5.8 | 5.8 | 7.5 | 8.5 | 43 | 73 | 71 | 6.0 | .4 | 6.5 | 7.5 |
| 26.... | 6.2 | 6.2 | 5.6 | 7.5 | 8.5 | 43 | 73 | 73 | 6.0 | .5 | 5.7 | 7.5 |
| 27.... | 5.5 | 6.5 | 5.8 | 7.5 | 8.5 | 35 | 73 | 80 | 5.2 | .9 | 3.8 | 7.2 |
| 28.... | 6.2 | 6.2 | 6.2 | 7.5 | 8.5 | 31 | 65 | 82 | 4.0 | 2.6 | 3.2 | 1.1 |
| 29.... | 6.0 | 6.5 | 6.4 | 7.5 | 8.5 | 26 | 63 | 82 | 4.5 | 2.2 | 2.8 | 3.0 |
| 30.... | 6.2 | 7.5 | 6.8 | 7.5 | .... | 23 | 53 | 84 | 8.1 | 1.5 | 2.6 | 4.4 |
| 31.... | 6.0 | .... | 6.8 | 7.5 | .... | 24 | .... | 89 | .... | 1.0 | 2.4 | .... |
| Total | 201.6 | 196.4 | 221.1 | 232.5 | 246.5 | 582 | 1494 | 2584 | 792.2 | 27.6 | 85.7 | 251.4 |
| Mean. | 6.50 | 6.55 | 7.13 | 7.5 | 8.5 | 18.8 | 49.8 | 83.4 | 26.4 | .89 | 2.76 | 8.38 |
| Max.. | 12 | 9.9 | 9.9 | .... | .... | 43 | 103 | 128 | 89 | 4.3 | 9.4 | 4.4 |
| Min.. | 3.6 | 5.0 | 5.0 | .... | .... | 10 | 19 | 45 | 4.0 | .4 | .7 | 1.4 |
| Acree-ft. | 400 | 390 | 439 | 461 | 489 | 1150 | 2960 | 5130 | 1570 | 55 | 170 | 499 |

Total run-off for water year 1939-40=13,710 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Blanco River Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|-------|------|-------|--------|------|-------|------|------|-------|--------|
| 1.... | 21 | 24 | 12 | 13 | 9.2 | 10 | 91 | 274 | 220 | 37 | 36 | 13 |
| 2.... | 21 | 23 | 13 | 14 | 11 | 10 | 116 | 280 | 217 | 35 | 31 | 11 |
| 3.... | 24 | 24 | 12 | 17 | 12 | 10 | 126 | 277 | 232 | 34 | 31 | 9.6 |
| 4.... | 28 | 23 | 12 | 14 | 13 | 10 | 116 | 298 | 247 | 32 | 34 | 7.2 |
| 5.... | 25 | 25 | 12 | 15 | 13 | 10 | 121 | 314 | 247 | 31 | 27 | 9.0 |
| 6.... | 32 | 20 | 12 | 17 | 12 | 9.2 | 110 | 298 | 194 | 31 | 28 | 14 |
| 7.... | 91 | 23 | 12 | 17 | 12 | 10 | 102 | 262 | 160 | 29 | 32 | 24 |
| 8.... | 123 | 19 | 13 | 16 | 11 | 10 | 121 | 277 | 155 | 25 | 30 | 7.4 |
| 9.... | 82 | 25 | 12 | 16 | 11 | 10 | 150 | 304 | 147 | 25 | 24 | 5.9 |
| 10.... | 70 | 22 | 12 | 15 | 10 | 10 | 114 | 320 | 150 | 24 | 21 | 4.7 |
| 11.... | 55 | 20 | 12 | 14 | 10 | 9.4 | 90 | 310 | 142 | 24 | 20 | 15.2 |
| 12.... | 48 | 20 | 11 | 14 | 11 | 11 | 96 | 280 | 134 | 24 | 17 | 9.8 |
| 13.... | 51 | 18 | 9.8 | 14 | 11 | 13 | 104 | 262 | 125 | 21 | 16 | 10.1 |
| 14.... | 47 | 21 | 9.4 | 15 | 11 | 17 | 112 | 256 | 116 | 18 | 16 | 16.5 |
| 15.... | 52 | 20 | 12 | 15 | 12 | 21 | 93 | 241 | 98 | 18 | 12 | 12.7 |
| 16.... | 62 | 19 | 13 | 15 | 11 | 28 | 79 | 209 | 86 | 18 | 11 | 7.6 |
| 17.... | 51 | 16 | 11 | 16 | 11 | 40 | 71 | 184 | 74 | 15 | 11 | 5.6 |
| 18.... | 43 | 17 | 8.4 | 16 | 11 | 58 | 66 | 229 | 59 | 12 | 11 | 4.4 |
| 19.... | 38 | 17 | 8.8 | 15 | 11 | 80 | 79 | 286 | 50 | 13 | 9.0 | 4.5 |
| 20.... | 34 | 16 | 12 | 15 | 11 | 114 | 98 | 296 | 45 | 13 | 8.4 | 3.5 |
| 21.... | 33 | 16 | 8.8 | 14 | 11 | 93 | 174 | 283 | 44 | 15 | 14 | 3.0 |
| 22.... | 30 | 14 | 8.0 | 14 | 11 | 85 | 209 | 293 | 47 | 14 | 12 | 2.6 |
| 23.... | 29 | 12 | 7.4 | 14 | 11 | 116 | 198 | 273 | 57 | 11 | 9.6 | 2.2 |
| 24.... | 26 | 12 | 7.0 | 13 | 11 | 135 | 148 | 241 | 52 | 11 | 8.4 | 1.9 |
| 25.... | 25 | 12 | 8.4 | 13 | 11 | 110 | 123 | 197 | 47 | 12 | 13 | 2.3 |
| 26.... | 25 | 12 | 10 | 14 | 11 | 104 | 143 | 170 | 42 | 11 | 14 | 4.4 |
| 27.... | 24 | 12 | 9.4 | 14 | 11 | 91 | 209 | 183 | 41 | 21 | 24 | 4.5 |
| 28.... | 23 | 12 | 11 | 14 | 11 | 83 | 262 | 186 | 39 | 41 | 34 | 4.1 |
| 29.... | 22 | 13 | 11 | 13 | .... | 59 | 262 | 192 | 40 | 65 | 33 | 4.0 |
| 30.... | 22 | 13 | 12 | 11 | .... | 54 | 259 | 208 | 39 | 79 | 17 | 3.2 |
| 31.... | 22 | .... | 12 | 10 | .... | 63 | .... | 208 | .... | 46 | 14 | .... |
| Total | 1279 | 540 | 334.4 | 447 | 312.2 | 1483.6 | 4042 | 7891 | 3346 | 805 | 618.4 | 1489.8 |
| Mean. | 41.3 | 18.0 | 10.8 | 14.4 | 11.2 | 47.9 | 135 | 255 | 112 | 26.0 | 19.9 | 49.7 |
| Max.. | 123 | 25 | 13 | 17 | 13 | 135 | 262 | 320 | 247 | 79 | 36 | 16.5 |
| Min.. | 21 | 12 | 7.0 | 10 | 9.2 | 9.2 | 66 | 170 | 39 | 11 | 8.4 | 7.2 |
| Acre-ft. | 2540 | 1070 | 663 | 887 | 619 | 2940 | 8020 | 15650 | 6640 | 1600 | 1230 | 2950 |

Total run-off for water year 1938-39=44,810 acre-feet.

Discharge of Rio Blanco Near Pagosa Springs, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|-------|-------|-------|------|------|-------|------|------|-------|-------|
| 1.... | 25 | 23 | 11 | 9.4 | 11 | 22 | 72 | 108 | 176 | 56 | 18 | 18 |
| 2.... | 22 | 22 | 11 | 9.0 | 12 | 21 | 59 | 139 | 155 | 48 | 15 | 20 |
| 3.... | 19 | 21 | 11 | 9.4 | 10 | 21 | 58 | 173 | 186 | 41 | 15 | 21 |
| 4.... | 18 | 19 | 12 | 9.6 | 11 | 19 | 58 | 220 | 144 | 38 | 14 | 20 |
| 5.... | 15 | 18 | 11 | 9.4 | 10 | 19 | 59 | 220 | 142 | 38 | 13 | 15 |
| 6.... | 13 | 18 | 11 | 8.4 | 9.4 | 21 | 56 | 211 | 153 | 33 | 16 | 13 |
| 7.... | 14 | 20 | 11 | 8.6 | 9.4 | 23 | 54 | 214 | 153 | 32 | 27 | 16 |
| 8.... | 21 | 18 | 11 | 9.2 | 9.2 | 25 | 56 | 194 | 150 | 30 | 27 | 18 |
| 9.... | 22 | 18 | 10 | 9.6 | 9.0 | 29 | 53 | 203 | 139 | 25 | 17 | 13 |
| 10.... | 23 | 22 | 11 | 9.6 | 9.0 | 30 | 52 | 217 | 130 | 23 | 16 | 10 |
| 11.... | 21 | 23 | 11 | 9.4 | 9.4 | 27 | 56 | 217 | 122 | 23 | 17 | 11 |
| 12.... | 18 | 24 | 10 | 9.0 | 11 | 26 | 76 | 208 | 115 | 22 | 14 | 18 |
| 13.... | 17 | 22 | 10 | 8.0 | 9.4 | 29 | 105 | 241 | 117 | 31 | 13 | 33 |
| 14.... | 16 | 20 | 9.6 | 7.4 | 10 | 32 | 137 | 254 | 122 | 40 | 13 | 24 |
| 15.... | 16 | 18 | 10 | 8.0 | 11 | 32 | 130 | 254 | 117 | 34 | 13 | 21 |
| 16.... | 14 | 17 | 9.6 | 8.6 | 10 | 49 | 101 | 266 | 103 | 37 | 13 | 18 |
| 17.... | 14 | 16 | 9.6 | 8.8 | 9.4 | 57 | 91 | 310 | 103 | 27 | 12 | 27 |
| 18.... | 15 | 16 | 9.6 | 8.4 | 10 | 54 | 99 | 362 | 100 | 30 | 9.8 | 7.9 |
| 19.... | 14 | 14 | 9.0 | 8.8 | 11 | 71 | 139 | 257 | 91 | 27 | 9.2 | 10.0 |
| 20.... | 14 | 13 | 9.0 | 8.4 | 10 | 82 | 168 | 226 | 88 | 24 | 4.0 | 6.0 |
| 21.... | 13 | 15 | 9.0 | 9.2 | 11 | 94 | 176 | 214 | 79 | 24 | 5.4 | 4.6 |
| 22.... | 12 | 14 | 8.4 | 8.4 | 11 | 123 | 189 | 229 | 72 | 29 | 5.4 | 4.8 |
| 23.... | 13 | 13 | 8.4 | 8.0 | 12 | 132 | 157 | 241 | 70 | 24 | 4.0 | 3.9 |
| 24.... | 13 | 12 | 9.0 | 8.8 | 13 | 142 | 152 | 244 | 70 | 21 | 12.8 | 3.8 |
| 25.... | 18 | 12 | 9.0 | 9.4 | 16 | 144 | 147 | 254 | 68 | 20 | 8.8 | 3.9 |
| 26.... | 27 | 11 | 9.0 | 9.4 | 16 | 127 | 142 | 244 | 58 | 21 | 6.2 | 3.3 |
| 27.... | 23 | 12 | 7.2 | 9.4 | 16 | 103 | 137 | 232 | 51 | 28 | 4.6 | 2.7 |
| 28.... | 21 | 11 | 8.0 | 9.0 | 17 | 82 | 119 | 229 | 48 | 27 | 3.4 | 3.3 |
| 29.... | 20 | 11 | 8.6 | 9.4 | 21 | 66 | 108 | 223 | 62 | 27 | 2.9 | 5.0 |
| 30.... | 18 | 11 | 9.0 | 9.8 | .... | 71 | 99 | 206 | 79 | 22 | 2.5 | 7.4 |
| 31.... | 19 | .... | 9.4 | 10 | .... | 76 | .... | 186 | .... | 19 | 2.2 | .... |
| Total | 548 | 504 | 302.4 | 277.8 | 334.2 | 1849 | 3105 | 7001 | 3268 | 921 | 914.0 | 982 |
| Mean. | 17.7 | 16.8 | 9.75 | 8.96 | 11.5 | 59.6 | 104 | 226 | 109 | 29.7 | 29.5 | 32.7 |
| Max.. | 27 | 24 | 12 | 10 | 21 | 144 | 189 | 362 | 186 | 56 | 12.8 | 10.0 |
| Min.. | 12 | 11 | 7.2 | 7.4 | 9.0 | 19 | 52 | 108 | 48 | 19 | 9.2 | 1.0 |
| Acre-ft. | 1090 | 1000 | 600 | 551 | 663 | 3670 | 6160 | 13890 | 6480 | 1830 | 1810 | 1950 |

Total run-off for water year 1939-40=39,690 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rito Blanco River Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|------|------|-------|-------|-------|------|-------|------|------|-------|
| 1..... | 2.2 | 1.0 | 1.9 | 1.7 | 0.8 | 1.6 | 25 | 63 | 27 | 2.1 | 0.9 | 0.3 |
| 2..... | 2.2 | 1.4 | 1.9 | 1.7 | 1.0 | 1.7 | 31 | 64 | 27 | 1.9 | 0.6 | 0.2 |
| 3..... | 2.4 | 2.1 | 1.8 | 1.8 | 1.0 | 1.7 | 35 | 58 | 26 | 1.2 | 0.5 | 0.2 |
| 4..... | 2.2 | 2.4 | 1.7 | 1.6 | 1.1 | 1.8 | 36 | 58 | 27 | 1.1 | 0.5 | 0.1 |
| 5..... | 2.5 | 2.2 | 1.7 | 1.7 | 1.1 | 1.8 | 36 | 58 | 28 | 1.0 | 0.5 | 0.2 |
| 6..... | 4.0 | 1.4 | 1.7 | 1.7 | 1.1 | 1.8 | 37 | 60 | 25 | 0.7 | 0.5 | 0.2 |
| 7..... | 9.8 | 1.5 | 1.7 | 1.7 | 1.1 | 1.8 | 32 | 48 | 23 | 0.7 | 0.7 | 0.5 |
| 8..... | 14 | 2.2 | 1.7 | 1.7 | 1.0 | 1.9 | 38 | 46 | 21 | 0.8 | 0.7 | 2.8 |
| 9..... | 11 | 3.2 | 1.7 | 1.6 | 1.0 | 1.9 | 45 | 46 | 20 | 0.8 | 0.4 | 1.9 |
| 10..... | 10 | 3.0 | 1.7 | 1.6 | 0.9 | 1.9 | 34 | 46 | 18 | 0.8 | 0.1 | 0.9 |
| 11..... | 9.0 | 2.5 | 1.6 | 1.6 | 1.0 | 1.8 | 33 | 44 | 18 | 0.7 | 0.1 | 8.2 |
| 12..... | 6.6 | 2.2 | 1.6 | 1.5 | 1.0 | 2.2 | 35 | 39 | 16 | 0.4 | 0.1 | 4.8 |
| 13..... | 7.8 | 2.7 | 1.5 | 1.5 | 1.0 | 2.4 | 37 | 34 | 15 | 0.4 | 0 | 2.8 |
| 14..... | 7.4 | 2.9 | 1.5 | 1.5 | 1.0 | 2.7 | 38 | 30 | 13 | 0.4 | 0 | 6.6 |
| 15..... | 6.2 | 3.0 | 1.6 | 1.6 | 1.1 | 3.0 | 31 | 26 | 12 | 0.6 | 0.1 | 1.2 |
| 16..... | 7.0 | 2.7 | 1.7 | 1.5 | 1.1 | 4.0 | 25 | 25 | 8.6 | 0.7 | 0 | 5.8 |
| 17..... | 5.4 | 2.5 | 1.6 | 1.5 | 1.2 | 4.4 | 23 | 21 | 5.8 | 0.4 | 0 | 5.4 |
| 18..... | 4.5 | 2.5 | 1.5 | 1.4 | 1.2 | 5.8 | 22 | 22 | 4.5 | 0.4 | 0 | 2.8 |
| 19..... | 4.2 | 2.6 | 1.6 | 1.4 | 1.3 | 8.0 | 26 | 27 | 3.4 | 0.1 | 0.1 | 2.2 |
| 20..... | 4.0 | 2.6 | 1.7 | 1.4 | 1.3 | 4.6 | 40 | 33 | 2.4 | 0.3 | 0 | 2.2 |
| 21..... | 3.4 | 2.6 | 1.5 | 1.4 | 1.3 | 2.5 | 56 | 56 | 4.0 | 1.0 | 0.3 | 1.7 |
| 22..... | 1.5 | 2.4 | 1.3 | 1.4 | 1.4 | 2.5 | 66 | 40 | 1.0 | 0.3 | 0.3 | 1.5 |
| 23..... | 1.5 | 2.0 | 1.2 | 1.4 | 1.4 | 2.5 | 54 | 39 | 1.4 | 0.1 | 0.1 | 1.1 |
| 24..... | 1.5 | 1.8 | 1.2 | 1.4 | 1.4 | 2.6 | 44 | 37 | 1.7 | 0.1 | 0 | 1.0 |
| 25..... | 1.4 | 1.7 | 1.3 | 1.4 | 1.5 | 2.4 | 39 | 32 | 2.1 | 0 | 0 | 1.1 |
| 26..... | 1.4 | 1.7 | 1.4 | 1.4 | 1.5 | 2.5 | 40 | 26 | 2.5 | 0.1 | 0 | 2.1 |
| 27..... | 1.4 | 1.7 | 1.4 | 1.3 | 1.5 | 2.5 | 48 | 25 | 4.0 | 0.2 | 0.3 | 6.6 |
| 28..... | 1.2 | 1.7 | 1.5 | 1.3 | 1.6 | 2.1 | 61 | 25 | 4.0 | 1.1 | 1.8 | 2.2 |
| 29..... | 1.1 | 1.8 | 1.5 | 1.2 | ..... | 1.8 | 68 | 25 | 2.5 | 2.8 | 1.2 | 2.2 |
| 30..... | 1.0 | 1.8 | 1.5 | 1.1 | ..... | 1.8 | 61 | 25 | 2.5 | 1.7 | 0.3 | 1.8 |
| 31..... | 1.0 | ..... | 1.6 | 0.9 | ..... | 2.1 | ..... | 26 | ..... | 0.9 | 0.2 | ..... |
| Total | 138.8 | 65.8 | 48.8 | 45.9 | 32.9 | 351.2 | 1196 | 1183 | 364.1 | 23.4 | 10.1 | 81.4 |
| Mean. | 4.48 | 2.19 | 1.57 | 1.48 | 1.18 | 11.3 | 39.9 | 38.2 | 12.1 | 0.75 | 0.33 | 2.71 |
| Max. | 14 | 3.2 | 1.9 | 1.8 | 1.6 | 4.6 | 68 | 64 | 28 | 2.8 | 1.8 | 12 |
| Min. | 1.0 | 1.0 | 1.2 | 0.9 | 0.8 | 1.6 | 22 | 21 | 1.0 | 0 | 0 | 0.1 |
| Acre-ft. | 275 | 131 | 97 | 91 | 65 | 697 | 2370 | 2350 | 722 | 46 | 20 | 161 |

Total run-off for water year 1938-39=7,020 acre-feet.

Discharge of Rito Blanco Near Pagosa Springs, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| 1..... | 1.5 | 0.4 | 0.6 | 0.7 | 1.2 | 1.0 | 15 | 26 | 38 | 4.0 | 0.6 | 0.4 |
| 2..... | 1.4 | ..... | ..... | ..... | ..... | ..... | 14 | 36 | 37 | 3.4 | ..... | ..... |
| 3..... | 1.2 | ..... | ..... | ..... | ..... | ..... | 12 | 56 | 34 | 2.4 | ..... | ..... |
| 4..... | 1.1 | ..... | ..... | ..... | ..... | ..... | 12 | 70 | 31 | 1.6 | ..... | ..... |
| 5..... | 1.1 | ..... | ..... | ..... | ..... | ..... | 13 | 72 | 26 | 1.7 | ..... | ..... |
| 6..... | 1.1 | ..... | ..... | ..... | ..... | ..... | 12 | 66 | 24 | 1.8 | ..... | ..... |
| 7..... | ..... | ..... | ..... | ..... | ..... | ..... | 12 | 64 | 21 | 1.4 | 1.0 | ..... |
| 8..... | ..... | ..... | ..... | ..... | ..... | ..... | 14 | 54 | 18 | 1.2 | ..... | ..... |
| 9..... | ..... | ..... | ..... | ..... | ..... | ..... | 14 | 49 | 17 | 1.4 | ..... | ..... |
| 10..... | ..... | ..... | ..... | ..... | ..... | ..... | 15 | 49 | 15 | 1.0 | ..... | ..... |
| 11..... | ..... | ..... | ..... | ..... | ..... | ..... | 15 | 43 | 11 | 1.0 | ..... | ..... |
| 12..... | ..... | ..... | ..... | ..... | ..... | ..... | 20 | 36 | 9.5 | ..... | ..... | ..... |
| 13..... | ..... | ..... | ..... | ..... | ..... | ..... | 30 | 37 | 9.0 | ..... | ..... | ..... |
| 14..... | ..... | ..... | ..... | ..... | ..... | ..... | 43 | 44 | 8.6 | 1.0 | ..... | ..... |
| 15..... | ..... | ..... | ..... | ..... | ..... | ..... | 44 | 54 | 8.6 | 1.2 | ..... | ..... |
| 16..... | ..... | ..... | ..... | ..... | ..... | ..... | 33 | 60 | 8.2 | 1.1 | ..... | ..... |
| 17..... | ..... | ..... | ..... | ..... | ..... | ..... | 27 | 82 | 7.4 | 1.0 | ..... | ..... |
| 18..... | ..... | ..... | ..... | ..... | ..... | ..... | 26 | 118 | 6.1 | ..... | ..... | ..... |
| 19..... | ..... | ..... | ..... | ..... | ..... | ..... | 34 | 92 | 5.3 | ..... | ..... | ..... |
| 20..... | ..... | ..... | ..... | ..... | ..... | ..... | 10 | 54 | 7.0 | ..... | ..... | ..... |
| 21..... | ..... | ..... | ..... | ..... | ..... | ..... | 13 | 58 | 5.4 | ..... | ..... | ..... |
| 22..... | ..... | ..... | ..... | ..... | ..... | ..... | 16 | 58 | 5.4 | ..... | ..... | ..... |
| 23..... | ..... | ..... | ..... | ..... | ..... | ..... | 20 | 68 | 6.2 | ..... | ..... | ..... |
| 24..... | ..... | ..... | ..... | ..... | ..... | ..... | 25 | 58 | 5.6 | ..... | ..... | ..... |
| 25..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 49 | 5.1 | ..... | ..... | ..... |
| 26..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 51 | 2.7 | ..... | ..... | ..... |
| 27..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 51 | 4.6 | ..... | ..... | ..... |
| 28..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 52 | 4.6 | ..... | ..... | ..... |
| 29..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 46 | 2.1 | ..... | ..... | ..... |
| 30..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 46 | 2.4 | ..... | ..... | ..... |
| 31..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 41 | 1.7 | ..... | ..... | ..... |
| Total | 18.1 | 20.2 | 24.7 | 25.0 | 34.7 | 26.4 | 950 | 1714 | 370.8 | 54.7 | 19.5 | 42.4 |
| Mean. | ..... | ..... | ..... | ..... | ..... | ..... | 31.7 | 55.3 | 12.4 | 1.76 | ..... | ..... |
| Max. | 1.5 | 1.6 | 1.5 | 1.1 | 1.5 | 2.8 | 68 | 118 | 38 | 7.4 | 2.1 | 7.0 |
| Min. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 26 | 1.4 | ..... | ..... | ..... |
| Acre-ft. | 36 | 40 | 49 | 50 | 69 | 524 | 1880 | 3400 | 735 | 108 | 39 | 84 |

Total run-off for water year 1939-40=7,010 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Navajo River at Banded Peak Ranch Near Chromo, Colo., for Year Ending Sept. 30, 1939

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 52 | 47 | 35 | 29 | 18 | 27 | 107 | 336 | 320 | 62 | 45 | 29 |
| 2.... | 49 | 43 | 32 | 31 | 22 | 28 | 128 | 336 | 326 | 56 | 41 | 27 |
| 3.... | 53 | 44 | 30 | 33 | 30 | 29 | 148 | 348 | 332 | 56 | 44 | 25 |
| 4.... | 47 | 43 | 34 | 30 | 30 | 29 | 141 | 371 | 371 | 53 | 40 | 24 |
| 5.... | 48 | 45 | 34 | 27 | 29 | 27 | 143 | 394 | 368 | 49 | 37 | 29 |
| 6.... | 53 | 37 | 34 | 30 | 28 | 26 | 141 | 391 | 278 | 48 | 38 | 37 |
| 7.... | 80 | 33 | 35 | 32 | 28 | 27 | 131 | 352 | 236 | 44 | 42 | 31 |
| 8.... | 101 | 34 | 35 | 31 | 27 | 28 | 154 | 355 | 239 | 45 | 40 | 43 |
| 9.... | 90 | 35 | 35 | 30 | 26 | 28 | 164 | 381 | 221 | 44 | 34 | 47 |
| 10.... | 80 | 34 | 35 | 29 | 25 | 28 | 141 | 411 | 224 | 44 | 33 | 32 |
| 11.... | 72 | 30 | 35 | 27 | 26 | 26 | 126 | 415 | 221 | 42 | 33 | 138 |
| 12.... | 66 | 29 | 35 | 26 | 27 | 29 | 131 | 381 | 210 | 41 | 31 | 105 |
| 13.... | 64 | 27 | 28 | 26 | 28 | 32 | 136 | 355 | 261 | 40 | 33 | 95 |
| 14.... | 63 | 31 | 23 | 27 | 28 | 35 | 138 | 352 | 182 | 40 | 32 | 120 |
| 15.... | 64 | 29 | 27 | 27 | 28 | 39 | 126 | 332 | 164 | 40 | 32 | 135 |
| 16.... | 68 | 31 | 32 | 28 | 27 | 44 | 112 | 313 | 143 | 37 | 30 | 90 |
| 17.... | 66 | 30 | 28 | 29 | 27 | 54 | 101 | 263 | 133 | 35 | 29 | 72 |
| 18.... | 60 | 33 | 24 | 29 | 27 | 66 | 99 | 310 | 116 | 35 | 28 | 62 |
| 19.... | 58 | 34 | 31 | 28 | 27 | 80 | 116 | 384 | 101 | 33 | 27 | 54 |
| 20.... | 55 | 32 | 29 | 28 | 26 | 76 | 164 | 415 | 92 | 33 | 28 | 47 |
| 21.... | 54 | 33 | 27 | 29 | 26 | 74 | 187 | 401 | 86 | 31 | 34 | 43 |
| 22.... | 53 | 28 | 23 | 29 | 26 | 78 | 227 | 415 | 84 | 33 | 30 | 42 |
| 23.... | 52 | 27 | 20 | 28 | 26 | 103 | 227 | 394 | 84 | 33 | 28 | 40 |
| 24.... | 49 | 27 | 18 | 27 | 27 | 114 | 190 | 352 | 78 | 31 | 26 | 37 |
| 25.... | 49 | 27 | 22 | 27 | 27 | 107 | 172 | 284 | 76 | 31 | 32 | 38 |
| 26.... | 45 | 28 | 25 | 28 | 27 | 112 | 185 | 245 | 69 | 34 | 35 | 49 |
| 27.... | 48 | 29 | 23 | 29 | 28 | 114 | 218 | 266 | 68 | 48 | 32 | 50 |
| 28.... | 47 | 31 | 26 | 29 | 27 | 99 | 281 | 288 | 63 | 57 | 37 | 41 |
| 29.... | 43 | 32 | 27 | 27 | .... | 84 | 304 | 320 | 62 | 62 | 38 | 38 |
| 30.... | 44 | 34 | 27 | 22 | .... | 72 | 320 | 323 | 62 | 58 | 32 | 36 |
| 31.... | 44 | .... | 27 | 19 | .... | 82 | .... | 313 | .... | 62 | 32 | .... |
| Total | 1817 | 997 | 896 | 871 | 748 | 1797 | 4958 | 10796 | 5210 | 1357 | 1053 | 1656 |
| Mean. | 58.6 | 33.2 | 28.9 | 28.1 | 26.7 | 58.0 | 165 | 348 | 174 | 43.8 | 34.0 | 55.2 |
| Max.. | 101 | 47 | 35 | 33 | 30 | 114 | 320 | 415 | 371 | 62 | 45 | 138 |
| Min.. | 43 | 27 | 18 | 19 | 18 | 26 | 99 | 245 | 62 | 31 | 26 | 24 |
| Acre-ft. | 3600 | 1980 | 1780 | 1730 | 1480 | 3560 | 9830 | 21410 | 10330 | 2690 | 2090 | 3280 |

Total run-off for water year 1938-39=63,760 acre-feet.

Discharge of Navajo River at Banded Peak Ranch Near Chromo, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 35 | 27 | 19 | 20 | 22 | 25 | 92 | 126 | 391 | 68 | 38 | 38 |
| 2.... | 33 | 27 | 20 | 19 | 22 | 24 | 84 | 156 | 360 | 61 | 36 | 38 |
| 3.... | 32 | 27 | 20 | 18 | 21 | 23 | 76 | 221 | 335 | 58 | 34 | 39 |
| 4.... | 32 | 27 | 21 | 18 | 20 | 22 | 76 | 269 | 304 | 55 | 32 | 37 |
| 5.... | 31 | 27 | 21 | 18 | 20 | 23 | 80 | 291 | 282 | 53 | 32 | 32 |
| 6.... | 30 | 28 | 22 | 18 | 18 | 24 | 78 | 304 | 264 | 50 | 36 | 34 |
| 7.... | 30 | 27 | 22 | 18 | 19 | 24 | 76 | 313 | 246 | 52 | 40 | 36 |
| 8.... | 34 | 27 | 22 | 19 | 19 | 25 | 78 | 297 | 277 | 48 | 42 | 34 |
| 9.... | 33 | 29 | 22 | 20 | 18 | 26 | 80 | 294 | 204 | 45 | 35 | 30 |
| 10.... | 33 | 26 | 22 | 21 | 18 | 26 | 86 | 329 | 185 | 44 | 37 | 30 |
| 11.... | 32 | 25 | 21 | 21 | 19 | 25 | 86 | 336 | 172 | 43 | 36 | 29 |
| 12.... | 32 | 26 | 20 | 20 | 21 | 26 | 99 | 332 | 161 | 43 | 32 | 45 |
| 13.... | 32 | 26 | 20 | 19 | 20 | 30 | 136 | 361 | 151 | 46 | 31 | 50 |
| 14.... | 31 | 26 | 21 | 16 | 21 | 33 | 167 | 377 | 161 | 45 | 30 | 39 |
| 15.... | 32 | 25 | 20 | 17 | 22 | 36 | 159 | 394 | 159 | 42 | 32 | 37 |
| 16.... | 31 | 25 | 19 | 18 | 21 | 41 | 136 | 408 | 144 | 46 | 37 | 34 |
| 17.... | 31 | 25 | 19 | 20 | 20 | 42 | 121 | 419 | 137 | 43 | 37 | 38 |
| 18.... | 31 | 24 | 18 | 19 | 22 | 43 | 121 | 380 | 127 | 42 | 31 | 70 |
| 19.... | 31 | 25 | 18 | 20 | 23 | 48 | 148 | 294 | 122 | 39 | 34 | 80 |
| 20.... | 30 | 24 | 19 | 18 | 22 | 58 | 193 | 246 | 118 | 38 | 80 | 53 |
| 21.... | 30 | 25 | 18 | 20 | 21 | 76 | 212 | 228 | 110 | 37 | 64 | 50 |
| 22.... | 30 | 25 | 16 | 19 | 24 | 84 | 227 | 240 | 108 | 49 | 61 | 56 |
| 23.... | 29 | 25 | 16 | 18 | 23 | 99 | 236 | 243 | 99 | 46 | 61 | 50 |
| 24.... | 29 | 24 | 14 | 20 | 22 | 107 | 224 | 264 | 95 | 40 | 137 | 49 |
| 25.... | 30 | 23 | 14 | 19 | 22 | 126 | 185 | 258 | 90 | 38 | 88 | 50 |
| 26.... | 32 | 23 | 14 | 20 | 23 | 124 | 190 | 279 | 90 | 39 | 66 | 46 |
| 27.... | 27 | 21 | 13 | 19 | 22 | 105 | 193 | 324 | 82 | 40 | 60 | 44 |
| 28.... | 28 | 20 | 12 | 20 | 23 | 90 | 159 | 349 | 79 | 46 | 52 | 45 |
| 29.... | 27 | 21 | 14 | 22 | 24 | 76 | 141 | 363 | 76 | 46 | 49 | 52 |
| 30.... | 27 | 21 | 16 | 23 | .... | 78 | 126 | 377 | 80 | 42 | 44 | 76 |
| 31.... | 27 | .... | 18 | 23 | .... | 84 | .... | 388 | .... | 38 | 39 | .... |
| Total | 952 | 751 | 571 | 600 | 612 | 1673 | 4065 | 9460 | 5169 | 1422 | 1463 | 1311 |
| Mean. | 30.7 | 25.0 | 18.4 | 19.4 | 21.1 | 54.0 | 136 | 305 | 172 | 45.9 | 47.2 | 44.7 |
| Max.. | 35 | 29 | 22 | 23 | 24 | 126 | 236 | 419 | 391 | 68 | 137 | 80 |
| Min.. | 27 | 20 | 12 | 16 | 18 | 22 | 76 | 126 | 76 | 37 | 30 | 29 |
| Acre-ft. | 1890 | 1490 | 1130 | 1190 | 1210 | 3320 | 8060 | 18760 | 10250 | 2820 | 2900 | 2660 |

Total run-off for water year 1939-40=55,680 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Navajo River Near Chromo, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|--------|------|------|------|------|------|------|------|------|------|-------|
| 1.... | 53 | 50 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 2.... | 48 | 50 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 3.... | 50 | 45 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 4.... | 53 | 46 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 5.... | 53 | 51 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 6.... | 57 | 47 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 7.... | 85 | 46 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 8.... | 137 | 45 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 9.... | 101 | 41 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 10.... | 90 | 40 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 11.... | 85 | 41 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 12.... | 81 | 41 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 13.... | 79 | 40 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 14.... | 77 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 15.... | 81 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 16.... | 86 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 17.... | 83 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 18.... | 74 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 19.... | 69 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 20.... | 67 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 21.... | 64 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 22.... | 63 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 23.... | 60 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 24.... | 57 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 25.... | 54 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 26.... | 53 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 27.... | 50 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 28.... | 50 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 29.... | 50 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 30.... | 50 | Nov. 1 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| 31.... | 48 | to 13 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 2108 | 583 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Mean. | 68.0 | 44.8 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Max.. | 137 | 51 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Min.. | 48 | 40 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Acre-ft. | 4180 | 1160 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |

Run-off for period=5,340 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Navajo River at Edith, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|-------|------|------|-------|
| 1..... | 51 | 50 | 50 | 35 | 22 | 36 | 270 | 472 | 450 | 64 | 57 | 29 |
| 2..... | 50 | 55 | 45 | 39 | 26 | 34 | 300 | 493 | 341 | 61 | 46 | 28 |
| 3..... | 49 | 49 | 42 | 45 | 35 | 36 | 353 | 454 | 356 | 56 | 45 | 26 |
| 4..... | 51 | 47 | 46 | 40 | 40 | 38 | 359 | 500 | 386 | 55 | 49 | 26 |
| 5..... | 54 | 55 | 45 | 36 | 38 | 33 | 320 | 493 | 406 | 54 | 42 | 30 |
| 6..... | 61 | 45 | 45 | 45 | 38 | 33 | 330 | 500 | 341 | 48 | 42 | 41 |
| 7..... | 86 | 38 | 43 | 44 | 37 | 35 | 282 | 423 | 258 | 43 | 43 | 34 |
| 8..... | 176 | 39 | 45 | 42 | 36 | 36 | 308 | 423 | 260 | 42 | 44 | 41 |
| 9..... | 116 | 43 | 42 | 39 | 34 | 37 | 368 | 451 | 246 | 41 | 40 | 57 |
| 10..... | 107 | 44 | 45 | 38 | 32 | 37 | 338 | 486 | 241 | 37 | 37 | 69 |
| 11..... | 102 | 44 | 46 | 35 | 34 | 36 | 272 | 490 | 246 | 37 | 35 | 180 |
| 12..... | 91 | 45 | 46 | 32 | 35 | 39 | 280 | 458 | 227 | 36 | 33 | 116 |
| 13..... | 89 | 36 | 36 | 33 | 37 | 44 | 288 | 412 | 223 | 35 | 32 | 107 |
| 14..... | 86 | 38 | 30 | 33 | 38 | 50 | 298 | 420 | 207 | 35 | 34 | 134 |
| 15..... | 86 | 40 | 37 | 34 | 37 | 58 | 260 | 383 | 186 | 38 | 31 | 180 |
| 16..... | 91 | 40 | 48 | 35 | 36 | 68 | 229 | 356 | 166 | 38 | 32 | 118 |
| 17..... | 91 | 41 | 40 | 36 | 37 | 88 | 203 | 308 | 148 | 33 | 30 | 91 |
| 18..... | 82 | 38 | 35 | 36 | 37 | 110 | 192 | 312 | 136 | 30 | 28 | 78 |
| 19..... | 75 | 39 | 47 | 36 | 36 | 125 | 218 | 412 | 121 | 32 | 27 | 68 |
| 20..... | 69 | 40 | 44 | 35 | 35 | 145 | 255 | 465 | 110 | 32 | 27 | 62 |
| 21..... | 68 | 40 | 38 | 38 | 34 | 172 | 325 | 437 | 99 | 30 | 29 | 55 |
| 22..... | 65 | 39 | 35 | 37 | 34 | 290 | 389 | 458 | 94 | 29 | 30 | 51 |
| 23..... | 62 | 34 | 29 | 35 | 35 | 462 | 402 | 437 | 96 | 29 | 27 | 48 |
| 24..... | 58 | 34 | 26 | 34 | 26 | 392 | 325 | 386 | 89 | 29 | 27 | 46 |
| 25..... | 56 | 35 | 32 | 34 | 37 | 350 | 292 | 332 | 86 | 29 | 29 | 44 |
| 26..... | 54 | 37 | 35 | 35 | 37 | 318 | 300 | 278 | 80 | 29 | 35 | 50 |
| 27..... | 51 | 38 | 30 | 36 | 36 | 298 | 335 | 298 | 75 | 42 | 32 | 89 |
| 28..... | 51 | 40 | 37 | 37 | 35 | 216 | 426 | 302 | 71 | 54 | 36 | 57 |
| 29..... | 50 | 43 | 36 | 36 | .... | 210 | 482 | 330 | 66 | 86 | 39 | 51 |
| 30..... | 50 | 45 | 35 | 34 | .... | 186 | 451 | 353 | 65 | 64 | 31 | 48 |
| 31..... | 50 | .... | 36 | 30 | .... | 207 | .... | 328 | .... | 76 | 30 | .... |
| Total | 2278 | 1251 | 1226 | 1134 | 984 | 4219 | 9450 | 12650 | 5776 | 1344 | 1099 | 2054 |
| Mean. | 73.5 | 41.7 | 39.5 | 36.6 | 35.1 | 136 | 315 | 408 | 193 | 43.4 | 35.5 | 68.5 |
| Max.. | 176 | 55 | 50 | 45 | 40 | 462 | 482 | 500 | 406 | 86 | 57 | 180 |
| Min.. | 49 | 34 | 26 | 30 | 22 | 33 | 192 | 278 | 65 | 29 | 27 | 26 |
| Acre-ft. | 4520 | 2480 | 2430 | 2250 | 1950 | 8370 | 18740 | 25090 | 11460 | 2670 | 2180 | 4070 |

Total run-off for water year 1938-39=86,210 acre-feet.

Discharge of Navajo River at Edith, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|-------|------|------|-------|
| 1..... | 44 | 32 | 24 | 23 | 32 | 43 | 155 | 186 | 430 | 75 | 40 | 46 |
| 2..... | 42 | 32 | 25 | 23 | 31 | 39 | 157 | 217 | 402 | 69 | 39 | 44 |
| 3..... | 40 | 31 | 25 | 24 | 29 | 37 | 130 | 281 | 360 | 64 | 35 | 48 |
| 4..... | 39 | 32 | 26 | 24 | 31 | 35 | 130 | 357 | 333 | 63 | 31 | 45 |
| 5..... | 39 | 33 | 26 | 24 | 30 | 40 | 134 | 388 | 310 | 62 | 30 | 42 |
| 6..... | 38 | 34 | 26 | 24 | 29 | 39 | 125 | 392 | 281 | 64 | 35 | 40 |
| 7..... | 38 | 33 | 26 | 23 | 31 | 38 | 124 | 392 | 262 | 57 | 36 | 42 |
| 8..... | 43 | 30 | 25 | 25 | 32 | 42 | 124 | 364 | 247 | 55 | 44 | 35 |
| 9..... | 45 | 37 | 26 | 26 | 31 | 45 | 125 | 342 | 233 | 50 | 35 | 31 |
| 10..... | 42 | 36 | 26 | 27 | 31 | 47 | 127 | 378 | 198 | 48 | 31 | 29 |
| 11..... | 40 | 33 | 25 | 27 | 32 | 44 | 128 | 381 | 192 | 47 | 37 | 30 |
| 12..... | 39 | 34 | 26 | 26 | 33 | 42 | 139 | 374 | 178 | 44 | 31 | 30 |
| 13..... | 36 | 33 | 24 | 25 | 31 | 48 | 174 | 423 | 168 | 47 | 30 | 60 |
| 14..... | 30 | 30 | 23 | 24 | 33 | 54 | 238 | 454 | 172 | 48 | 27 | 35 |
| 15..... | 29 | 29 | 23 | 25 | 35 | 60 | 286 | 468 | 174 | 45 | 27 | 35 |
| 16..... | 28 | 29 | 24 | 26 | 34 | 70 | 228 | 482 | 170 | 50 | 29 | 31 |
| 17..... | 27 | 28 | 26 | 27 | 32 | 88 | 202 | 520 | 155 | 46 | 34 | 33 |
| 18..... | 26 | 29 | 25 | 26 | 35 | 86 | 192 | 528 | 152 | 49 | 28 | 55 |
| 19..... | 27 | 29 | 23 | 27 | 37 | 96 | 224 | 398 | 139 | 46 | 27 | 87 |
| 20..... | 28 | 29 | 23 | 26 | 35 | 105 | 292 | 336 | 127 | 41 | 62 | 56 |
| 21..... | 29 | 29 | 21 | 27 | 33 | 141 | 333 | 302 | 120 | 40 | 88 | 46 |
| 22..... | 29 | 28 | 20 | 26 | 38 | 162 | 333 | 302 | 116 | 40 | 71 | 56 |
| 23..... | 29 | 27 | 20 | 26 | 36 | 188 | 354 | 316 | 111 | 57 | 72 | 54 |
| 24..... | 30 | 28 | 21 | 28 | 35 | 206 | 345 | 319 | 106 | 44 | 137 | 49 |
| 25..... | 30 | 28 | 21 | 28 | 35 | 226 | 286 | 313 | 100 | 39 | 109 | 54 |
| 26..... | 38 | 28 | 23 | 28 | 36 | 228 | 281 | 313 | 95 | 39 | 76 | 55 |
| 27..... | 33 | 29 | 21 | 28 | 35 | 200 | 286 | 357 | 87 | 40 | 68 | 54 |
| 28..... | 34 | 27 | 19 | 27 | 36 | 186 | 240 | 402 | 82 | 43 | 58 | 56 |
| 29..... | 33 | 26 | 20 | 28 | 40 | 141 | 221 | 402 | 82 | 46 | 57 | 63 |
| 30..... | 30 | 26 | 22 | 30 | .... | 130 | 196 | 409 | 92 | 46 | 53 | 88 |
| 31..... | 31 | .... | 23 | 31 | .... | 150 | .... | 426 | .... | 40 | 48 | .... |
| Total | 1066 | 909 | 728 | 809 | 968 | 3056 | 6309 | 11522 | 5674 | 1544 | 1525 | 1429 |
| Mean. | 34.4 | 30.3 | 23.5 | 26.1 | 33.4 | 98.6 | 210 | 372 | 189 | 49.8 | 49.2 | 47.6 |
| Max.. | 45 | 37 | 26 | 31 | 40 | 228 | 354 | 528 | 430 | 75 | 137 | 88 |
| Min.. | 26 | 26 | 19 | 23 | 29 | 35 | 124 | 186 | 82 | 39 | 27 | 29 |
| Acre-ft. | 2110 | 1800 | 1440 | 1600 | 1920 | 6060 | 12510 | 22850 | 11250 | 3060 | 3020 | 2830 |

Total run-off for water year 1939-40=70,450 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Little Navajo River at Chromo, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|------|------|-------|------|-------|------|------|------|-------|
| 1.... | 1.1 | 2.6 | 3.0 | 2.3 | 1.5 | 1.9 | 4.4 | 5.9 | 8.2 | 0.1 | 0.5 | 0.1 |
| 2.... | 1.0 | 4.4 | 2.8 | 2.4 | 1.6 | 2.0 | 4.7 | 5.9 | 6.9 | 0.1 | 0.4 | 0.1 |
| 3.... | 1.3 | 2.6 | 2.6 | 2.5 | 1.7 | 2.0 | 4.9 | 5.4 | 6.5 | 0.1 | 0.3 | 0.2 |
| 4.... | 1.5 | 2.6 | 2.5 | 2.3 | 1.7 | 2.0 | 4.8 | 5.3 | 7.8 | 0.1 | 0.2 | 0.2 |
| 5.... | 1.6 | 2.1 | 2.5 | 2.2 | 1.8 | 2.0 | 4.8 | 4.9 | 1.1 | 0.1 | 0.2 | 0.2 |
| 6.... | 1.8 | 2.5 | 2.5 | 2.4 | 1.8 | 1.9 | 4.4 | 5.3 | 1.2 | 0.1 | 0.1 | 0.2 |
| 7.... | 4.1 | 3.3 | 2.5 | 2.6 | 1.8 | 2.0 | 4.7 | 5.1 | 1.0 | 0 | 0.1 | 0.2 |
| 8.... | 9.3 | 3.9 | 2.6 | 2.7 | 1.7 | 2.0 | 4.9 | 4.9 | 6.5 | 0.1 | 0.1 | 0.2 |
| 9.... | 4.8 | 4.2 | 2.6 | 2.5 | 1.7 | 2.0 | 5.9 | 4.7 | 2.6 | 0.1 | 0.1 | 0.3 |
| 10.... | 4.1 | 3.8 | 2.5 | 2.4 | 1.6 | 2.0 | 5.4 | 4.4 | 1.7 | 0.1 | 0.1 | 0.7 |
| 11.... | 4.1 | 3.7 | 2.4 | 2.4 | 1.6 | 1.9 | 4.5 | 4.1 | 2.1 | 0.1 | 0.1 | 2.6 |
| 12.... | 3.9 | 3.6 | 2.3 | 2.4 | 1.6 | 2.4 | 4.5 | 3.9 | 2.3 | 0.1 | 0.1 | 2.1 |
| 13.... | 3.6 | 4.4 | 2.2 | 2.4 | 1.6 | 3.0 | 4.7 | 3.6 | 1.5 | 0.1 | 0.1 | 1.4 |
| 14.... | 3.1 | 5.1 | 2.1 | 2.4 | 1.6 | 3.8 | 4.7 | 3.5 | 9.8 | 0.1 | 0.1 | 1.8 |
| 15.... | 2.6 | 5.0 | 2.5 | 2.4 | 1.7 | 6.2 | 4.1 | 2.7 | 0.6 | 0.1 | 0.1 | 5.2 |
| 16.... | 2.3 | 4.6 | 2.8 | 2.5 | 1.7 | 9.0 | 3.5 | 2.2 | 0.6 | 0.1 | 0.1 | 5.2 |
| 17.... | 2.3 | 4.1 | 2.5 | 2.4 | 1.7 | 1.2 | 3.0 | 1.5 | 0.7 | 0.1 | 0.2 | 4.4 |
| 18.... | 1.8 | 4.2 | 2.0 | 2.3 | 1.7 | 2.1 | 2.5 | 1.2 | 0.4 | 0.1 | 0.2 | 3.4 |
| 19.... | 2.3 | 4.3 | 2.3 | 2.2 | 1.7 | 2.9 | 2.7 | 9.3 | 0.2 | 0.1 | 0.5 | 2.8 |
| 20.... | 2.6 | 4.3 | 2.2 | 2.1 | 1.7 | 4.4 | 4.8 | 9.3 | 0.2 | 0.1 | 0.5 | 2.1 |
| 21.... | 3.1 | 4.2 | 2.0 | 2.1 | 1.7 | 3.5 | 5.6 | 9.3 | 0.2 | 0.1 | 0.4 | 1.6 |
| 22.... | 2.8 | 4.1 | 1.9 | 2.1 | 1.6 | 4.9 | 6.1 | 7.8 | 0.1 | 0.1 | 0.2 | 1.6 |
| 23.... | 3.1 | 3.6 | 1.7 | 2.1 | 1.8 | 7.8 | 6.4 | 7.3 | 0.1 | 0.1 | 0.1 | 1.4 |
| 24.... | 2.8 | 3.2 | 1.6 | 2.1 | 1.8 | 6.1 | 5.4 | 7.8 | 0.1 | 0.1 | 0.1 | 1.4 |
| 25.... | 3.1 | 2.8 | 1.8 | 2.1 | 1.8 | 5.9 | 5.1 | 7.8 | 0.1 | 0.1 | 0.1 | 1.4 |
| 26.... | 3.4 | 2.7 | 1.8 | 2.1 | 1.8 | 5.1 | 5.0 | 6.9 | 0.1 | 0.1 | 0.1 | 3.9 |
| 27.... | 3.1 | 2.7 | 1.9 | 2.0 | 1.8 | 5.0 | 5.1 | 6.9 | 0.1 | 0.1 | 0.1 | 5.2 |
| 28.... | 2.8 | 2.7 | 2.0 | 1.9 | 1.9 | 3.7 | 5.4 | 7.3 | 0.1 | 0.2 | 0.1 | 1.8 |
| 29.... | 2.5 | 2.8 | 2.1 | 1.8 | .... | 3.3 | 6.0 | 7.8 | 0.1 | 0.8 | 0.1 | 1.4 |
| 30.... | 2.1 | 2.9 | 2.2 | 1.7 | .... | 2.6 | 5.7 | 8.2 | 0.1 | 0.7 | 0.1 | 1.4 |
| 31.... | 2.3 | .... | 2.3 | 1.6 | .... | 2.7 | .... | 8.6 | .... | 0.5 | 0.1 | .... |
| Total | 90.1 | 107.0 | 70.7 | 69.4 | 47.7 | 658.1 | 1437 | 849.3 | 83.7 | 4.8 | 5.6 | 54.5 |
| Mean | 2.90 | 3.57 | 2.28 | 2.24 | 1.54 | 21.2 | 47.9 | 27.4 | 2.79 | 0.15 | 0.18 | 1.82 |
| Max. | 9.3 | 5.1 | 3.0 | 2.7 | 1.9 | 7.8 | 6.4 | 5.9 | 1.2 | 0.8 | 0.5 | 5.2 |
| Min. | 1.0 | 2.1 | 1.6 | 1.6 | 1.5 | 1.9 | 2.5 | 6.9 | 0.1 | 0.0 | 0.1 | 0.1 |
| Acre-ft. | 179 | 212 | 140 | 138 | 95 | 1310 | 2850 | 1680 | 166 | 9.5 | 11 | 108 |

Total run-off for water year 1938-39=6,900 acre-feet.

Discharge of Little Navajo River at Chromo, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|-------|-------|-------|------|------|------|-------|
| 1.... | 1.4 | 1.4 | 1.0 | 1.4 | 1.5 | 1.9 | 1.3 | 2.7 | 4.3 | .1 | .1 | .1 |
| 2.... | 1.4 | 1.1 | 1.2 | 1.5 | 1.5 | 1.8 | 1.3 | 3.0 | 5.8 | .1 | .1 | .1 |
| 3.... | 1.3 | 1.3 | 1.3 | 1.5 | 1.6 | 1.8 | 1.1 | 3.6 | 4.5 | .1 | .1 | .1 |
| 4.... | 1.3 | 1.4 | 1.6 | 1.6 | 1.6 | 1.6 | 1.1 | 3.9 | 4.5 | .1 | .1 | .1 |
| 5.... | 1.6 | 1.4 | 1.6 | 1.6 | 1.6 | 1.8 | 1.1 | 3.9 | 3.5 | .1 | .1 | .1 |
| 6.... | 1.6 | 1.4 | 1.5 | 1.6 | 1.6 | 1.8 | 1.1 | 3.6 | 2.5 | .1 | .1 | .1 |
| 7.... | 1.7 | 1.4 | 1.4 | 1.6 | 1.5 | 2.4 | 9.8 | 3.4 | 2.4 | .1 | .1 | .1 |
| 8.... | 2.3 | 1.5 | 1.4 | 1.6 | 1.5 | 2.1 | 9.8 | 2.7 | 2.2 | .1 | .1 | .1 |
| 9.... | 2.3 | 2.3 | 1.6 | 1.6 | 1.4 | 3.1 | 1.1 | 2.3 | 1.7 | .1 | .1 | .1 |
| 10.... | 1.8 | 2.1 | 1.4 | 1.4 | 1.4 | 3.1 | 1.2 | 2.2 | .9 | .1 | .1 | .1 |
| 11.... | 1.7 | 2.1 | 1.4 | 1.5 | 1.3 | 2.8 | 1.2 | 1.8 | .4 | .1 | .1 | .1 |
| 12.... | 1.7 | 2.6 | 1.3 | 1.5 | 1.3 | 2.8 | 1.4 | 1.4 | .3 | .1 | .1 | .1 |
| 13.... | 1.6 | 2.6 | 1.4 | 1.5 | 1.2 | 3.5 | 2.3 | 1.8 | .4 | .1 | .1 | .1 |
| 14.... | 1.6 | 2.1 | 1.4 | 1.4 | 1.2 | 3.5 | 3.9 | 1.6 | .6 | .1 | .1 | .1 |
| 15.... | 1.7 | 2.8 | 1.4 | 1.3 | 1.3 | 5.3 | 3.9 | 1.6 | .3 | .1 | .1 | .1 |
| 16.... | 1.6 | 3.4 | 1.7 | 1.3 | 1.2 | 1.2 | 3.4 | 1.5 | .3 | .1 | .1 | .1 |
| 17.... | 1.6 | 2.6 | 1.9 | 1.2 | 1.1 | 1.4 | 3.0 | 2.2 | .2 | .1 | .1 | .1 |
| 18.... | 1.6 | 1.6 | 1.8 | 1.3 | 1.2 | 1.4 | 2.8 | 2.8 | .2 | .1 | .1 | .1 |
| 19.... | 1.6 | 2.3 | 1.7 | 1.3 | 1.2 | 1.6 | 3.5 | 2.3 | .2 | .1 | .1 | .1 |
| 20.... | 1.6 | 2.8 | 1.4 | 1.4 | 1.0 | 1.6 | 4.1 | 2.1 | .1 | .1 | .1 | .1 |
| 21.... | 1.6 | 2.6 | 1.6 | 1.3 | 1.0 | 1.6 | 4.2 | 1.8 | .1 | .1 | .1 | .1 |
| 22.... | 1.6 | 2.4 | 1.5 | 1.3 | 1.1 | 2.1 | 4.2 | 1.9 | .1 | .1 | .1 | .1 |
| 23.... | 1.7 | 2.4 | 1.4 | 1.4 | 1.0 | 2.2 | 4.0 | 2.1 | .1 | .1 | .1 | .1 |
| 24.... | 1.6 | 2.6 | 1.4 | 1.4 | 1.2 | 2.5 | 3.8 | 1.6 | .1 | .1 | .1 | .1 |
| 25.... | 1.7 | 2.2 | 1.3 | 1.5 | 1.2 | 2.6 | 3.6 | 1.2 | .1 | .1 | .1 | .1 |
| 26.... | 2.8 | 1.5 | 1.3 | 1.4 | 1.2 | 2.4 | 3.6 | 1.2 | .1 | .1 | .1 | .1 |
| 27.... | 2.3 | 1.5 | 1.2 | 1.3 | 1.2 | 2.1 | 3.7 | 1.2 | .1 | .1 | .1 | .1 |
| 28.... | 2.1 | 1.4 | 1.2 | 1.2 | 1.5 | 1.7 | 3.3 | 1.1 | .1 | .1 | .1 | .2 |
| 29.... | 2.1 | 1.2 | 1.1 | 1.3 | 1.9 | 1.2 | 3.0 | 9.4 | .1 | .1 | .1 | .2 |
| 30.... | 1.7 | 1.3 | 1.2 | 1.3 | .... | 1.1 | 2.6 | 9.0 | .1 | .1 | .1 | .8 |
| 31.... | 1.7 | .... | 1.3 | 1.4 | .... | 1.2 | .... | 7.7 | .... | .1 | .1 | .... |
| Total | 53.9 | 59.3 | 43.9 | 43.9 | 38.5 | 318.3 | 767.6 | 651.1 | 36.5 | 3.1 | 3.1 | 3.9 |
| Mean | 1.74 | 1.98 | 1.42 | 1.42 | 1.33 | 10.3 | 25.6 | 21.0 | 1.22 | .10 | .10 | .13 |
| Max. | 2.8 | 3.4 | 1.9 | 1.6 | 1.9 | 2.6 | 4.2 | 3.9 | 5.8 | .1 | .1 | .8 |
| Min. | 1.3 | 1.1 | 1.0 | 1.2 | 1.0 | 1.6 | 9.8 | 7.7 | .1 | .1 | .1 | .1 |
| Acre-ft. | 107 | 118 | 87 | 87 | 76 | 631 | 1520 | 1290 | 72 | 6.1 | 6.1 | 7.7 |

Total run-off for water year 1939-40=4,010 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Piedra River at Bridge Ranger Station Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|------|-------|-------|------|------|-------|
| 1.... | 45 | 46 | ..... | ..... | ..... | ..... | 68 | 226 | 345 | 35 | 19 | 27 |
| 2.... | 47 | 44 | ..... | ..... | ..... | ..... | 76 | 292 | 330 | 31 | 17 | 23 |
| 3.... | 50 | 46 | ..... | ..... | ..... | ..... | 90 | 256 | 348 | 28 | 17 | 18 |
| 4.... | 41 | 47 | ..... | ..... | ..... | ..... | 100 | 253 | 414 | 28 | 16 | 15 |
| 5.... | 48 | 46 | ..... | ..... | ..... | ..... | 120 | 306 | 402 | 27 | 16 | 19 |
| 6.... | 75 | 42 | ..... | ..... | ..... | ..... | 105 | 330 | 320 | 26 | 27 | 66 |
| 7.... | 203 | 31 | ..... | *20 | ..... | ..... | 94 | 247 | 260 | 23 | 31 | 66 |
| 8.... | 260 | 36 | ..... | ..... | ..... | ..... | 120 | 296 | 244 | 22 | 21 | 86 |
| 9.... | 152 | 42 | ..... | ..... | ..... | ..... | 145 | 352 | 229 | 21 | 18 | 70 |
| 10.... | 124 | 29 | ..... | ..... | ..... | ..... | 134 | 406 | 220 | 20 | 18 | 68 |
| 11.... | 106 | 34 | ..... | ..... | ..... | ..... | 120 | 394 | 232 | 18 | 16 | 158 |
| 12.... | 97 | 32 | ..... | ..... | ..... | ..... | 102 | 356 | 198 | 16 | 16 | 162 |
| 13.... | 106 | 27 | ..... | ..... | ..... | ..... | 100 | 296 | 188 | 14 | 16 | 196 |
| 14.... | 111 | 33 | ..... | ..... | ..... | ..... | 100 | 232 | 170 | 13 | 16 | 210 |
| 15.... | 120 | 41 | ..... | ..... | ..... | ..... | 98 | 226 | 149 | 13 | 16 | 206 |
| 16.... | 111 | 40 | ..... | ..... | ..... | ..... | 80 | 229 | 127 | 13 | 15 | 170 |
| 17.... | 97 | 34 | ..... | ..... | ..... | ..... | 56 | 194 | 113 | 13 | 15 | 184 |
| 18.... | 82 | 27 | ..... | ..... | ..... | ..... | 58 | 229 | 98 | 13 | 15 | 151 |
| 19.... | 80 | 26 | ..... | ..... | ..... | ..... | 70 | 238 | 89 | 13 | 15 | 127 |
| 20.... | 88 | 29 | ..... | ..... | ..... | ..... | 82 | 398 | 81 | 13 | 15 | 109 |
| 21.... | 80 | 27 | ..... | ..... | ..... | ..... | 113 | 406 | 70 | 13 | 12 | 88 |
| 22.... | 75 | 25 | ..... | ..... | ..... | ..... | 136 | 446 | 65 | 13 | 12 | 75 |
| 23.... | 70 | 20 | ..... | ..... | ..... | ..... | 145 | 406 | 62 | 13 | 12 | 66 |
| 24.... | 66 | 24 | ..... | ..... | ..... | ..... | 113 | 341 | 59 | 12 | 12 | 58 |
| 25.... | 65 | 25 | ..... | ..... | ..... | ..... | 102 | 266 | 55 | 12 | 12 | 55 |
| 26.... | 62 | 24 | ..... | ..... | ..... | ..... | 97 | 262 | 53 | 11 | 12 | 65 |
| 27.... | 61 | 24 | ..... | ..... | ..... | ..... | 115 | 282 | 48 | 15 | 31 | 69 |
| 28.... | 58 | 27 | ..... | ..... | ..... | ..... | 154 | 296 | 43 | 16 | 11 | 65 |
| 29.... | 54 | 28 | ..... | ..... | ..... | ..... | 180 | 316 | 36 | 20 | 102 | 74 |
| 30.... | 53 | 28 | ..... | ..... | ..... | ..... | 190 | 367 | 41 | 24 | 46 | 62 |
| 31.... | 51 | ..... | ..... | ..... | ..... | ..... | 363 | ..... | ..... | 27 | 33 | ..... |
| Total | 2738 | 986 | 682 | 636 | 560 | 1581 | 3263 | 9508 | 5089 | 576 | 750 | 2808 |
| Mean. | 88.3 | 32.9 | 22 | 20.5 | 20 | 51 | 109 | 307 | 170 | 18.6 | 24.2 | 93.6 |
| Max.. | 260 | 47 | ..... | ..... | ..... | ..... | 190 | 446 | 414 | 35 | 111 | 210 |
| Min.. | 41 | 20 | ..... | ..... | ..... | ..... | 56 | 194 | 36 | 11 | 12 | 15 |
| Acre-ft. | 5430 | 1960 | 1350 | 1260 | 1110 | 3140 | 6470 | 18860 | 10090 | 1140 | 1490 | 5570 |

Total run-off for water year 1938-39=57,870 acre-feet.

*Discharge measurement.

Discharge of Piedra River at Bridge Ranger Station Near Pagosa Springs, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|------|-------|-------|-------|------|------|-------|
| 1.... | 55 | 36 | 12 | 14 | 16 | 18 | 62 | 102 | 314 | 50 | 14 | 19 |
| 2.... | 52 | 35 | 12 | 14 | 16 | 19 | 61 | 149 | 275 | 40 | 13 | 19 |
| 3.... | 50 | 32 | 12 | 14 | 16 | 19 | 53 | 238 | 245 | 33 | 12 | 35 |
| 4.... | 45 | 30 | 12 | 14 | 16 | 20 | 52 | 348 | 220 | 34 | 11 | 31 |
| 5.... | 40 | 30 | 12 | 14 | 16 | 21 | 55 | 367 | 206 | 36 | 12 | 25 |
| 6.... | 36 | 29 | 12 | 14 | 16 | 22 | 55 | 348 | 180 | 33 | 13 | 23 |
| 7.... | 34 | 26 | 12 | 14 | 16 | 22 | 50 | 360 | 152 | 29 | 13 | 21 |
| 8.... | 47 | 24 | 12 | 14 | 16 | 23 | 50 | 299 | 137 | 27 | 12 | 17 |
| 9.... | 41 | 26 | 12 | 14 | 16 | 24 | 53 | 279 | 121 | 22 | 11 | 19 |
| 10.... | 35 | 22 | 12 | 14 | 16 | 24 | 53 | 320 | 106 | 18 | 10 | 16 |
| 11.... | 33 | 22 | 12 | 14 | 16 | 24 | 50 | 320 | 98 | 17 | 10 | 15 |
| 12.... | 32 | 21 | 12 | 14 | 16 | 21 | 55 | 302 | 91 | 17 | 10 | 14 |
| 13.... | 31 | 26 | 12 | 14 | 16 | 19 | 80 | 345 | 91 | 18 | 10 | 13 |
| 14.... | 29 | 23 | 12 | 14 | 16 | 20 | 116 | 414 | 85 | 16 | 10 | 13 |
| 15.... | 27 | 24 | 12 | 14 | 16 | 25 | 111 | 364 | 81 | 15 | 13 | 13 |
| 16.... | 27 | 24 | 12 | 14 | 16 | 27 | 89 | 328 | 76 | 15 | 15 | 14 |
| 17.... | 27 | 22 | 12 | 14 | 16 | 29 | 89 | 328 | 68 | 15 | 11 | 17 |
| 18.... | 26 | 20 | 12 | 14 | 16 | 31 | 104 | 294 | 65 | 16 | 10 | 111 |
| 19.... | 26 | 18 | 12 | 14 | 16 | 35 | 147 | 233 | 59 | 18 | 15 | 152 |
| 20.... | 25 | 16 | 12 | 14 | 16 | 42 | 190 | 211 | 56 | 16 | 22 | 108 |
| 21.... | 23 | 17 | 12 | 14 | 16 | 54 | 196 | 193 | 58 | 18 | 24 | 85 |
| 22.... | 23 | 16 | 12 | 14 | 16 | 70 | 201 | 195 | 66 | 15 | 22 | 105 |
| 23.... | 19 | 16 | 12 | 14 | 16 | 90 | 215 | 223 | 62 | 14 | 25 | 91 |
| 24.... | 20 | 15 | 12 | 14 | 16 | 111 | 198 | 225 | 53 | 14 | 46 | 77 |
| 25.... | 23 | 15 | 12 | 14 | 16 | 115 | 178 | 223 | 46 | 13 | 54 | 73 |
| 26.... | 37 | 15 | 12 | 14 | 16 | 104 | 192 | 245 | 43 | 13 | 50 | 76 |
| 27.... | 26 | 15 | 12 | 14 | 16 | 88 | 188 | 284 | 39 | 19 | 36 | 72 |
| 28.... | 29 | 15 | 12 | 14 | 16 | 72 | 142 | 300 | 35 | 19 | 30 | 95 |
| 29.... | 31 | 15 | 12 | 14 | 16 | 61 | 116 | 308 | 39 | 16 | 28 | 173 |
| 30.... | 29 | 14 | 12 | 14 | ..... | 70 | 98 | 322 | 76 | 18 | 25 | 204 |
| 31.... | 35 | ..... | 12 | 14 | ..... | 69 | ..... | 339 | ..... | 16 | 22 | ..... |
| Total | 1013 | 659 | 372 | 434 | 464 | 1389 | 3299 | 8806 | 3243 | 660 | 609 | 1746 |
| Mean. | 32.7 | 22.0 | 12 | 14 | 16 | 44.8 | 110 | 284 | 108 | 21.3 | 19.6 | 58.2 |
| Max.. | 55 | 36 | ..... | ..... | ..... | 115 | 215 | 414 | 314 | 50 | 54 | 204 |
| Min.. | 19 | 14 | ..... | ..... | ..... | 18 | 50 | 102 | 35 | 13 | 10 | 13 |
| Acre-ft. | 2010 | 1310 | 738 | 861 | 920 | 2760 | 6540 | 17470 | 6430 | 1310 | 1210 | 3460 |

Total run-off for water year 1939-40=45,020 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Piedra River Near Dyke, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|-------|------|------|-------|
| 1.... | 80 | 75 | 42 | 38 | 47 | 59 | 292 | 379 | 610 | 164 | 48 | 60 |
| 2.... | 80 | 74 | 42 | 36 | 53 | 59 | 257 | 466 | 561 | 124 | 47 | 55 |
| 3.... | 80 | 74 | 44 | 40 | 49 | 65 | 220 | 678 | 502 | 106 | 45 | 67 |
| 4.... | 80 | 74 | 45 | 42 | 49 | 65 | 206 | 944 | 453 | 104 | 41 | 70 |
| 5.... | 80 | 74 | 45 | 42 | 49 | 65 | 232 | 1030 | 415 | 131 | 39 | 60 |
| 6.... | 80 | 82 | 43 | 40 | 27 | 68 | 232 | 944 | 383 | 127 | 42 | 55 |
| 7.... | 80 | 77 | 43 | 36 | 49 | 71 | 214 | 996 | 334 | 108 | 53 | 51 |
| 8.... | 80 | 75 | 45 | 38 | 49 | 70 | 223 | 890 | 302 | 100 | 53 | 48 |
| 9.... | 80 | 77 | 43 | 42 | 42 | 75 | 223 | 810 | 278 | 90 | 44 | 47 |
| 10.... | 80 | 70 | 45 | 44 | 37 | 73 | 229 | 890 | 241 | 83 | 40 | 47 |
| 11.... | 80 | 74 | 43 | 43 | 49 | 62 | 217 | 905 | 220 | 80 | 40 | 50 |
| 12.... | 80 | 68 | 37 | 40 | 51 | 61 | 241 | 860 | 206 | 76 | 39 | 48 |
| 13.... | 80 | 68 | 34 | 38 | 37 | 55 | 316 | 825 | 203 | 76 | 38 | 49 |
| 14.... | 80 | 61 | 32 | 35 | 38 | 59 | 453 | 978 | 192 | 76 | 38 | 49 |
| 15.... | 80 | 61 | 36 | 37 | 45 | 81 | 494 | 932 | 179 | 76 | 38 | 47 |
| 16.... | 80 | 55 | 36 | 40 | 41 | 85 | 431 | 835 | 187 | 72 | 40 | 45 |
| 17.... | 80 | 51 | 43 | 44 | 47 | 87 | 379 | 850 | 169 | 74 | 39 | 44 |
| 18.... | 80 | 51 | 32 | 43 | 45 | 96 | 379 | 885 | 152 | 72 | 36 | 192 |
| 19.... | 80 | 55 | 25 | 44 | 47 | 111 | 494 | 682 | 138 | 67 | 38 | 458 |
| 20.... | 80 | 53 | 23 | 40 | 49 | 124 | 682 | 628 | 133 | 63 | 60 | 313 |
| 21.... | 80 | 54 | 27 | 44 | 45 | 152 | 800 | 579 | 131 | 81 | 87 | 223 |
| 22.... | 80 | 52 | 28 | 43 | 48 | 192 | 770 | 561 | 129 | 68 | 65 | 257 |
| 23.... | 80 | 50 | 34 | 40 | 48 | 244 | 820 | 602 | 140 | 65 | 70 | 238 |
| 24.... | 80 | 48 | 33 | 42 | 47 | 292 | 740 | 588 | 116 | 56 | 108 | 198 |
| 25.... | 80 | 49 | 36 | 44 | 53 | 344 | 669 | 574 | 104 | 54 | 161 | 182 |
| 26.... | 80 | 50 | 30 | 46 | 60 | 363 | 664 | 588 | 96 | 49 | 154 | 182 |
| 27.... | 80 | 50 | 25 | 48 | 48 | 330 | 705 | 628 | 100 | 62 | 110 | 179 |
| 28.... | 80 | 49 | 27 | 47 | 51 | 302 | 561 | 628 | 90 | 74 | 89 | 176 |
| 29.... | 80 | 46 | 29 | 47 | 55 | 257 | 480 | 620 | 85 | 81 | 85 | 395 |
| 30.... | 80 | 44 | 34 | 47 | .... | 264 | 411 | 602 | 189 | 60 | 72 | 476 |
| 31.... | 80 | .... | 36 | 47 | .... | 296 | .... | 615 | .... | 56 | 60 | .... |
| Total | 2480 | 1841 | 1117 | 1297 | 1355 | 4527 | 13034 | 22992 | 7038 | 2575 | 1919 | 4361 |
| Mean.. | 80.0 | 61.4 | 36.0 | 41.8 | 46.7 | 146 | 434 | 742 | 235 | 83.1 | 61.9 | 145 |
| Max.. | .... | 82 | 45 | 48 | 60 | 363 | 820 | 1030 | 610 | 164 | 161 | 476 |
| Min.. | .... | 44 | 23 | 35 | 27 | 55 | 206 | 379 | 85 | 49 | 36 | 44 |
| Acre-ft. | 4920 | 3650 | 2220 | 2570 | 2690 | 8980 | 25850 | 45600 | 13960 | 5110 | 3810 | 8650 |

Total run-off for water year 1939-40=128,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Williams Creek Near Bridge Ranger Station Near Pagosa Springs, Colo.,
for Year Ending Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|--------|
| 1..... | 23 | 24 | ..... | ..... | ..... | ..... | 28 | 158 | 150 | 32 | 12 | 12 |
| 2..... | 21 | 25 | ..... | ..... | ..... | ..... | 30 | 164 | 137 | 30 | 12 | 11 |
| 3..... | 25 | 28 | ..... | ..... | ..... | ..... | 31 | 140 | 150 | 26 | 11 | 8.6 |
| 4..... | 21 | 29 | ..... | ..... | ..... | ..... | 33 | 150 | 175 | 24 | 10 | 7.4 |
| 5..... | 25 | 27 | ..... | ..... | ..... | ..... | 40 | 172 | 170 | 20 | 9.8 | 8.6 |
| 6..... | 42 | 23 | ..... | ..... | ..... | ..... | 38 | 164 | 145 | 19 | 19 | 19 |
| 7..... | 86 | 25 | ..... | ..... | ..... | ..... | 36 | 137 | 122 | 17 | 24 | 39 |
| 8..... | 97 | 28 | ..... | ..... | ..... | ..... | 40 | 147 | 117 | 16 | 15 | 56 |
| 9..... | 69 | 28 | ..... | ..... | ..... | ..... | 40 | 172 | 119 | 15 | 12 | 38 |
| 10..... | 60 | 22 | ..... | ..... | ..... | ..... | 38 | 188 | 114 | 14 | 11 | 37 |
| 11..... | 54 | 21 | ..... | ..... | ..... | ..... | 32 | 184 | 119 | 13 | 9.2 | 77 |
| 12..... | 53 | 24 | ..... | ..... | ..... | ..... | 28 | 164 | 98 | 12 | 8.6 | 63 |
| 13..... | 58 | 25 | ..... | ..... | ..... | ..... | 28 | 150 | 94 | 12 | 8.0 | 75 |
| 14..... | 64 | 28 | ..... | ..... | ..... | ..... | 30 | 132 | 85 | 11 | 8.0 | 85 |
| 15..... | 64 | 31 | ..... | ..... | ..... | ..... | 30 | 124 | 77 | 12 | 8.0 | 94 |
| 16..... | 64 | 29 | ..... | ..... | ..... | ..... | 29 | 119 | 66 | 14 | 7.4 | 61 |
| 17..... | 63 | 23 | ..... | ..... | ..... | ..... | 29 | 110 | 60 | 12 | 8.0 | 75 |
| 18..... | 42 | 26 | ..... | ..... | ..... | ..... | 29 | 124 | 54 | 13 | 8.6 | 63 |
| 19..... | 48 | 28 | ..... | ..... | ..... | ..... | 28 | 161 | 45 | 11 | 9.2 | 54 |
| 20..... | 48 | 30 | ..... | ..... | ..... | ..... | 28 | 172 | 43 | 10 | 5.0 | 45 |
| 21..... | 48 | 29 | ..... | ..... | ..... | ..... | 40 | 194 | 37 | 10 | 4.6 | 39 |
| 22..... | 44 | 27 | ..... | ..... | ..... | ..... | 56 | 194 | 34 | 10 | 4.6 | 35 |
| 23..... | 40 | 25 | ..... | ..... | ..... | ..... | 110 | 175 | 36 | 9.2 | 3.8 | 31 |
| 24..... | 36 | 22 | ..... | ..... | ..... | ..... | 120 | 153 | 36 | 6.2 | 4.6 | 29 |
| 25..... | 33 | 23 | ..... | ..... | ..... | ..... | 110 | 130 | 33 | 5.0 | 5.0 | 28 |
| 26..... | 30 | 23 | ..... | ..... | ..... | ..... | 100 | 127 | 30 | 4.2 | 5.6 | 33 |
| 27..... | 28 | 25 | ..... | ..... | ..... | ..... | 92 | 145 | 31 | 6.8 | 7.4 | 35 |
| 28..... | 27 | 27 | ..... | ..... | ..... | ..... | 117 | 134 | 32 | 9.8 | 2.0 | 29 |
| 29..... | 26 | 27 | ..... | ..... | ..... | ..... | 132 | 147 | 31 | 12 | 33 | 30 |
| 30..... | 24 | 27 | ..... | ..... | ..... | ..... | 140 | 158 | 33 | 12 | 19 | 27 |
| 31..... | 24 | ..... | ..... | ..... | ..... | ..... | ..... | 158 | ..... | 15 | 14 | ..... |
| Total | 1387 | 779 | 496 | 263.5 | 232.4 | 728.5 | 1662 | 4747 | 2473 | 433.2 | 337.4 | 1244.6 |
| Mean... | 44.7 | 26.0 | 16 | 8.5 | 8.3 | 23.5 | 55.4 | 153 | 82.4 | 14.0 | 10.9 | 41.5 |
| Max... | 97 | 31 | ..... | ..... | ..... | ..... | 140 | 194 | 175 | 32 | 33 | 94 |
| Min..... | 21 | 21 | ..... | ..... | ..... | ..... | 28 | 110 | 30 | 4.2 | 3.8 | 7.4 |
| Acre-ft. | 2750 | 1550 | 984 | 523 | 461 | 1440 | 3300 | 9420 | 4910 | 859 | 669 | 2470 |

Total run-off for water year 1938-39=29,340 acre-feet.

**Discharge of Williams Creek Near Bridge Ranger Station Near Pagosa Springs, Colorado,
for Year Ending Sept. 30, 1940.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|--------|
| 1..... | 25 | 16 | 6.2 | 6.8 | 8.4 | 25 | 50 | 62 | 70 | 23 | 11 | 13 |
| 2..... | 25 | 17 | 6.2 | 6.8 | 8.4 | 25 | 45 | 76 | 64 | 19 | 10 | 13 |
| 3..... | 25 | 16 | 6.2 | 6.8 | 8.4 | 25 | 41 | 118 | 60 | 16 | 9.6 | 10 |
| 4..... | 26 | 15 | 6.2 | 6.8 | 8.4 | 25 | 43 | 164 | 56 | 17 | 9.0 | 10 |
| 5..... | 26 | 15 | 6.2 | 6.8 | 8.4 | 25 | 47 | 170 | 54 | 18 | 9.6 | 12 |
| 6..... | 27 | 16 | 6.2 | 6.8 | 8.4 | 25 | 46 | 170 | 48 | 15 | 13 | 13 |
| 7..... | 27 | 15 | 6.2 | 6.8 | 8.4 | 25 | 45 | 180 | 47 | 14 | 11 | 9.0 |
| 8..... | 27 | 14 | 6.2 | 6.8 | 8.4 | 25 | 44 | 164 | 46 | 13 | 10 | 9.0 |
| 9..... | 21 | 15 | 6.2 | 6.8 | 8.4 | 25 | 43 | 161 | 44 | 14 | 8.5 | 8.5 |
| 10..... | 18 | 14 | 6.2 | 6.8 | 8.4 | 25 | 41 | 180 | 42 | 12 | 8.0 | 9.0 |
| 11..... | 18 | 13 | 6.2 | 6.8 | 8.4 | 25 | 42 | 177 | 39 | 11 | 7.5 | 9.0 |
| 12..... | 18 | 12 | 6.2 | 6.8 | 8.4 | 25 | 47 | 167 | 36 | 10 | 7.5 | 9.0 |
| 13..... | 18 | 11 | 6.2 | 6.8 | 8.4 | 25 | 52 | 167 | 38 | 10 | 7.5 | 9.0 |
| 14..... | 17 | 9.6 | 6.2 | 6.8 | 8.4 | 25 | 64 | 174 | 35 | 10 | 8.5 | 9.6 |
| 15..... | 17 | 9.2 | 6.2 | 6.8 | 8.4 | 25 | 88 | 167 | 35 | 11 | 9.0 | 9.0 |
| 16..... | 15 | 9.0 | 6.2 | 6.8 | 8.4 | 25 | 80 | 152 | 35 | 11 | 8.0 | 8.5 |
| 17..... | 14 | 8.5 | 6.2 | 6.8 | 8.4 | 25 | 72 | 149 | 32 | 11 | 7.5 | 10 |
| 18..... | 14 | 8.0 | 6.2 | 6.8 | 8.4 | 25 | 74 | 135 | 28 | 11 | 7.5 | 54 |
| 19..... | 14 | 8.0 | 6.2 | 6.8 | 8.4 | 25 | 88 | 110 | 26 | 10 | 11 | 72 |
| 20..... | 14 | 8.0 | 6.2 | 6.8 | 8.4 | 25 | 125 | 105 | 25 | 12 | 15 | 47 |
| 21..... | 14 | 8.2 | 6.2 | 6.8 | 8.4 | 25 | 140 | 100 | 22 | 18 | 14 | 37 |
| 22..... | 13 | 8.0 | 6.2 | 6.8 | 8.4 | 25 | 140 | 95 | 21 | 14 | 13 | 46 |
| 23..... | 13 | 8.0 | 6.2 | 6.8 | 8.4 | 25 | 149 | 102 | 18 | 14 | 13 | 56 |
| 24..... | 12 | 7.6 | 6.2 | 6.8 | 8.4 | 25 | 138 | 95 | 17 | 13 | 22 | 52 |
| 25..... | 14 | 7.6 | 6.2 | 6.8 | 8.4 | 25 | 115 | 100 | 16 | 11 | 28 | 90 |
| 26..... | 16 | 7.8 | 6.2 | 6.8 | 8.4 | 25 | 108 | 82 | 17 | 10 | 28 | 59 |
| 27..... | 14 | 8.0 | 6.2 | 6.8 | 8.4 | 25 | 105 | 80 | 15 | 15 | 21 | 57 |
| 28..... | 15 | 7.5 | 6.2 | 6.8 | 8.4 | 25 | 86 | 82 | 14 | 22 | 17 | 90 |
| 29..... | 15 | 7.4 | 6.2 | 6.8 | 8.4 | 25 | 74 | 78 | 14 | 15 | 16 | 102 |
| 30..... | 14 | 7.4 | 6.2 | 6.8 | ..... | 25 | 64 | 86 | 28 | 17 | 15 | 92 |
| 31..... | 15 | ..... | 6.2 | 6.8 | ..... | 25 | ..... | 80 | ..... | 13 | 14 | ..... |
| Total | 561 | 326.8 | 192.2 | 210.8 | 243.6 | 775 | 2296 | 3928 | 1042 | 430 | 389.7 | 1024.6 |
| Mean... | 18.1 | 10.9 | 6.2 | 6.8 | 8.4 | 25 | 76.5 | 127 | 34.7 | 13.9 | 12.6 | 34.2 |
| Max... | 27 | 17 | ..... | ..... | ..... | ..... | 149 | 180 | 70 | 23 | 28 | 102 |
| Min..... | 12 | 7.4 | ..... | ..... | ..... | ..... | 41 | 62 | 14 | 10 | 7.5 | 8.5 |
| Acre-ft. | 1110 | 648 | 381 | 418 | 483 | 1540 | 4550 | 7790 | 2070 | 853 | 773 | 2030 |

Total run-off for water year 1939-40=22,650 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Weminuche Creek Near Bridge Ranger Station Near Pagosa Springs, Colo.,
for Year Ending Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1..... | 23 | 41 | 26 | ..... | ..... | ..... | 26 | 205 | 121 | 26 | 12 | 22 |
| 2..... | 26 | 38 | 24 | ..... | ..... | ..... | 28 | 221 | 126 | 22 | 12 | 18 |
| 3..... | 44 | 35 | 24 | ..... | ..... | ..... | 29 | 182 | 136 | 22 | 12 | 14 |
| 4..... | 35 | 34 | 21 | ..... | ..... | ..... | 30 | 175 | 148 | 20 | 11 | 12 |
| 5..... | 42 | 34 | 24 | ..... | ..... | ..... | 36 | 205 | 158 | 19 | 10 | 12 |
| 6..... | 79 | 28 | 24 | ..... | ..... | ..... | 34 | 225 | 138 | 17 | 16 | 24 |
| 7..... | 160 | 18 | 21 | ..... | ..... | ..... | 33 | 187 | 134 | 15 | 22 | 33 |
| 8..... | 185 | 26 | 20 | ..... | ..... | ..... | 39 | 194 | 110 | 15 | 13 | 58 |
| 9..... | 123 | 29 | 19 | ..... | ..... | ..... | 36 | 205 | 103 | 15 | 11 | 47 |
| 10..... | 100 | 29 | 18 | ..... | ..... | ..... | 28 | 242 | 103 | 13 | 9.8 | 39 |
| 11..... | 89 | 26 | 18 | ..... | ..... | ..... | 26 | 246 | 93 | 12 | 9.5 | 84 |
| 12..... | 79 | 26 | 18 | ..... | ..... | ..... | 26 | 230 | 83 | 12 | 8.6 | 79 |
| 13..... | 84 | 16 | 17 | ..... | ..... | ..... | 28 | 201 | 79 | 12 | 7.7 | 91 |
| 14..... | 91 | 26 | 12 | ..... | ..... | ..... | 28 | 178 | 74 | 12 | 7.7 | 98 |
| 15..... | 96 | 30 | 13 | ..... | ..... | ..... | 26 | 172 | 66 | 12 | 7.1 | 92 |
| 16..... | 104 | 30 | 15 | ..... | ..... | ..... | 26 | 158 | 57 | 14 | 7.1 | 70 |
| 17..... | 105 | 30 | 13 | ..... | ..... | ..... | 25 | 139 | 53 | 11 | 6.6 | 66 |
| 18..... | 89 | 29 | 11 | ..... | ..... | ..... | 21 | 150 | 45 | 10 | 6.6 | 53 |
| 19..... | 84 | 29 | 13 | ..... | ..... | ..... | 24 | 187 | 43 | 10 | 7.1 | 43 |
| 20..... | 79 | 28 | 12 | ..... | ..... | ..... | 26 | 212 | 39 | 10 | 6.3 | 39 |
| 21..... | 74 | 27 | 12 | ..... | ..... | ..... | 59 | 203 | 35 | 9.2 | 6.6 | 32 |
| 22..... | 70 | 24 | 11 | ..... | ..... | ..... | 128 | 210 | 32 | 9.2 | 7.7 | 31 |
| 23..... | 62 | 23 | 10 | ..... | ..... | ..... | 156 | 197 | 33 | 9.5 | 7.1 | 28 |
| 24..... | 60 | 21 | 8 | ..... | ..... | ..... | 130 | 168 | 31 | 9.2 | 7.7 | 26 |
| 25..... | 56 | 22 | 9 | ..... | ..... | ..... | 115 | 139 | 27 | 8.6 | 8.3 | 24 |
| 26..... | 55 | 22 | 10 | ..... | ..... | ..... | 103 | 132 | 25 | 8.0 | 8.9 | 29 |
| 27..... | 54 | 24 | 9 | ..... | ..... | ..... | 117 | 144 | 24 | 11 | 18 | 47 |
| 28..... | 59 | 26 | 10 | ..... | ..... | ..... | 158 | 139 | 28 | 17 | 52 | 31 |
| 29..... | 45 | 26 | 9 | ..... | ..... | ..... | 175 | 138 | 26 | 18 | 69 | 29 |
| 30..... | 43 | 26 | 9 | ..... | ..... | ..... | 185 | 136 | 28 | 18 | 37 | 26 |
| 31..... | 41 | ..... | 10 | ..... | ..... | ..... | ..... | 120 | ..... | 15 | 26 | ..... |
| Total | 2327 | 823 | 470 | 254.2 | 226.8 | 713 | 1904 | 5640 | 2198 | 431.7 | 451.4 | 1297 |
| Mean. | 75.1 | 27.4 | 15.2 | 8.2 | 8.1 | 23 | 63.5 | 182 | 73.3 | 13.9 | 14.6 | 43.2 |
| Max. | 185 | 41 | 26 | ..... | ..... | ..... | 185 | 246 | 158 | 26 | 69 | 98 |
| Min. | 23 | 16 | 8 | ..... | ..... | ..... | 24 | 120 | 24 | 8.0 | 6.3 | 12 |
| Acre-ft. | 4620 | 1630 | 932 | 504 | 450 | 1410 | 3780 | 11190 | 4360 | 856 | 895 | 2570 |

Total run-off for water year 1938-39=33,200 acre-feet.

**Discharge of Weminuche Creek Near Bridge Ranger Station Near Pagosa Springs, Colorado,
for Year Ending Sept. 30, 1940.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|------|-------|------|-------|-------|-------|--------|
| 1..... | 24 | 22 | 6.0 | 6.5 | 9.0 | 11 | 61 | 70 | 88 | 27 | 9.2 | 11 |
| 2..... | 22 | 22 | 6.0 | 6.5 | 9.0 | 11 | 49 | 85 | 82 | 18 | 8.6 | 10 |
| 3..... | 21 | 20 | 6.0 | 6.5 | 9.0 | 12 | 44 | 129 | 74 | 15 | 7.5 | 11 |
| 4..... | 20 | 18 | 6.0 | 6.5 | 9.0 | 12 | 45 | 166 | 67 | 13 | 6.5 | 10 |
| 5..... | 18 | 19 | 6.0 | 6.5 | 9.0 | 12 | 52 | 185 | 62 | 15 | 6.2 | 9.2 |
| 6..... | 18 | 17 | 6.0 | 6.5 | 9.0 | 13 | 52 | 171 | 57 | 14 | 8.6 | 8.2 |
| 7..... | 17 | 16 | 6.0 | 6.5 | 9.0 | 13 | 49 | 177 | 49 | 12 | 9.2 | 7.8 |
| 8..... | 35 | 16 | 6.0 | 6.5 | 9.0 | 14 | 48 | 160 | 43 | 13 | 8.2 | 7.2 |
| 9..... | 29 | 18 | 6.0 | 6.5 | 9.0 | 14 | 46 | 156 | 40 | 12 | 6.8 | 7.0 |
| 10..... | 22 | 15 | 5.0 | 6.5 | 9.0 | 15 | 45 | 172 | 36 | 11 | 6.0 | 7.2 |
| 11..... | 21 | 15 | 3.0 | 6.5 | 9.0 | 14 | 44 | 174 | 32 | 10 | 5.8 | 7.5 |
| 12..... | 22 | 14 | 6.0 | 6.5 | 9.0 | 13 | 47 | 166 | 29 | 9.2 | 5.2 | 7.5 |
| 13..... | 21 | 12 | 6.0 | 6.5 | 9.0 | 12 | 59 | 158 | 29 | 8.9 | 5.0 | 10 |
| 14..... | 18 | 11 | 6.0 | 6.5 | 9.0 | 14 | 87 | 174 | 27 | 8.9 | 4.8 | 8.2 |
| 15..... | 18 | 10 | 6.0 | 6.5 | 9.0 | 18 | 93 | 160 | 26 | 9.2 | 5.0 | 8.2 |
| 16..... | 17 | 10 | 6.0 | 6.5 | 9.0 | 19 | 80 | 150 | 33 | 9.2 | 5.0 | 7.2 |
| 17..... | 16 | 9 | 6.0 | 6.5 | 9.0 | 20 | 74 | 154 | 29 | 10 | 5.0 | 7.8 |
| 18..... | 15 | 8.5 | 6.0 | 6.5 | 9.0 | 21 | 75 | 149 | 26 | 10 | 4.8 | 9.6 |
| 19..... | 15 | 8.2 | 6.0 | 6.5 | 9.0 | 24 | 100 | 130 | 23 | 9.6 | 9.2 | 117 |
| 20..... | 15 | 8.4 | 6.0 | 6.5 | 9.0 | 27 | 126 | 117 | 21 | 10 | 16 | 8.2 |
| 21..... | 15 | 8.5 | 6.0 | 6.5 | 9.0 | 31 | 143 | 108 | 20 | 12 | 14 | 6.0 |
| 22..... | 14 | 8.5 | 6.0 | 6.5 | 9.0 | 37 | 140 | 105 | 20 | 10 | 13 | 6.9 |
| 23..... | 14 | 8.2 | 6.0 | 6.5 | 9.0 | 46 | 147 | 104 | 18 | 11 | 18 | 5.9 |
| 24..... | 13 | 8.0 | 6.0 | 6.5 | 9.0 | 57 | 136 | 99 | 15 | 10 | 31 | 4.7 |
| 25..... | 15 | 8.0 | 6.0 | 6.5 | 9.0 | 70 | 125 | 98 | 14 | 8.9 | 33 | 4.5 |
| 26..... | 23 | 8.2 | 6.0 | 6.5 | 9.0 | 80 | 123 | 100 | 15 | 8.2 | 29 | 4.3 |
| 27..... | 19 | 8.2 | 6.0 | 6.5 | 9.0 | 76 | 110 | 104 | 15 | 11 | 20 | 3.8 |
| 28..... | 20 | 8.2 | 6.0 | 6.5 | 9.0 | 70 | 95 | 101 | 13 | 21 | 16 | 5.0 |
| 29..... | 22 | 8.0 | 6.0 | 6.5 | 9.0 | 64 | 80 | 97 | 13 | 17 | 14 | 9.7 |
| 30..... | 20 | 7.8 | 6.0 | 6.5 | ..... | 60 | 68 | 91 | 36 | 14 | 13 | 11.3 |
| 31..... | 22 | ..... | 6.0 | 6.5 | ..... | 66 | ..... | 91 | ..... | 11 | 11 | ..... |
| Total | 601 | 370.7 | 186.0 | 201.5 | 261.0 | 966 | 2443 | 4101 | 1052 | 379.1 | 354.6 | 1061.0 |
| Mean. | 19.4 | 12.4 | 6.0 | 6.5 | 9.0 | 31.2 | 81.4 | 132 | 35.1 | 12.2 | 11.4 | 35.4 |
| Max. | 35 | 22 | ..... | ..... | ..... | 80 | 147 | 185 | 88 | 27 | 33 | 11.7 |
| Min. | 13 | 7.8 | ..... | ..... | ..... | 11 | 44 | 70 | 13 | 8.2 | 4.8 | 7.0 |
| Acre-ft. | 1190 | 735 | 369 | 400 | 518 | 1920 | 4850 | 8130 | 2090 | 752 | 703 | 2100 |

Total run-off for water year 1939-40=23,760 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Los Pinos River Below Snowslide Canyon Near Weminuche Pass, Colo.,
for Year Ending Sept. 30, 1939.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| 1.... | 25 | 40 | ..... | ..... | ..... | ..... | ..... | 122 | 94 | 21 | 13 | 11 |
| 2.... | 30 | 39 | ..... | ..... | ..... | ..... | ..... | 122 | 85 | 20 | 12 | 10 |
| 3.... | 38 | ..... | ..... | ..... | ..... | ..... | ..... | 85 | 99 | 20 | 11 | 9.0 |
| 4.... | 32 | ..... | ..... | ..... | ..... | ..... | ..... | 115 | 130 | 20 | 11 | 8.5 |
| 5.... | 33 | ..... | ..... | ..... | ..... | ..... | ..... | 149 | 122 | 19 | 11 | 11 |
| 6.... | 43 | ..... | ..... | ..... | ..... | ..... | ..... | 118 | 96 | 18 | 20 | 23 |
| 7.... | 47 | ..... | ..... | ..... | ..... | ..... | ..... | 92 | 85 | 18 | 18 | 26 |
| 8.... | 44 | ..... | ..... | ..... | ..... | ..... | ..... | 115 | 71 | 17 | 13 | 35 |
| 9.... | 42 | ..... | ..... | ..... | ..... | ..... | ..... | 159 | 69 | 16 | 11 | 26 |
| 10.... | 41 | ..... | ..... | ..... | ..... | ..... | ..... | 188 | 67 | 16 | 11 | 27 |
| 11.... | 39 | ..... | ..... | ..... | ..... | ..... | ..... | 169 | 75 | 15 | 10 | 36 |
| 12.... | 39 | ..... | ..... | ..... | ..... | ..... | ..... | 137 | 67 | 16 | 9.5 | 35 |
| 13.... | 43 | ..... | ..... | ..... | ..... | ..... | ..... | 101 | 62 | 14 | 9.5 | 29 |
| 14.... | 49 | ..... | ..... | ..... | ..... | ..... | ..... | 85 | 57 | 14 | 9.0 | 28 |
| 15.... | 69 | ..... | ..... | ..... | ..... | ..... | ..... | 77 | 50 | 14 | 9.0 | 25 |
| 16.... | 81 | ..... | ..... | ..... | ..... | ..... | ..... | 67 | 42 | 14 | 9.0 | 22 |
| 17.... | 75 | ..... | ..... | ..... | ..... | ..... | ..... | 59 | 38 | 13 | 8.5 | 20 |
| 18.... | 62 | ..... | ..... | ..... | ..... | ..... | ..... | 92 | 33 | 13 | 9.0 | 18 |
| 19.... | 57 | ..... | ..... | ..... | ..... | ..... | ..... | 156 | 30 | 12 | 8.0 | 17 |
| 20.... | 51 | ..... | ..... | ..... | ..... | ..... | ..... | 169 | 27 | 11 | 7.0 | 16 |
| 21.... | 49 | ..... | ..... | ..... | ..... | ..... | ..... | 164 | 24 | 11 | 7.5 | 15 |
| 22.... | 48 | ..... | ..... | ..... | ..... | ..... | ..... | 174 | 22 | 10 | 7.5 | 15 |
| 23.... | 44 | ..... | ..... | ..... | ..... | ..... | ..... | 130 | 23 | 9.5 | 7.0 | 14 |
| 24.... | 44 | ..... | ..... | ..... | ..... | ..... | ..... | 85 | 20 | 9.0 | 8.5 | 14 |
| 25.... | 43 | ..... | ..... | ..... | ..... | ..... | ..... | 69 | 17 | 9.0 | 9.5 | 14 |
| 26.... | 41 | ..... | ..... | ..... | ..... | ..... | ..... | 81 | 16 | 11 | 9.0 | 18 |
| 27.... | 40 | ..... | ..... | ..... | ..... | ..... | ..... | 113 | 20 | 14 | 9.5 | 18 |
| 28.... | 42 | ..... | ..... | ..... | ..... | ..... | ..... | 120 | 25 | 16 | 16 | 16 |
| 29.... | 42 | ..... | ..... | ..... | ..... | ..... | ..... | 125 | 22 | 16 | 20 | 14 |
| 30.... | 42 | ..... | ..... | ..... | ..... | ..... | ..... | 103 | 22 | 16 | 14 | 14 |
| 31.... | 41 | ..... | ..... | ..... | ..... | ..... | ..... | 99 | ..... | 15 | 11 | ..... |
| Total | 1416 | 79 | ..... | ..... | ..... | ..... | 1350 | 3640 | 1610 | 457.5 | 339.0 | 584.5 |
| Mean... | 45.7 | ..... | ..... | ..... | ..... | ..... | 45 | 117 | 53.7 | 14.8 | 10.9 | 19.5 |
| Max.... | 81 | ..... | ..... | ..... | ..... | ..... | ..... | 188 | 130 | 21 | 20 | 36 |
| Min.... | 25 | ..... | ..... | ..... | ..... | ..... | ..... | 59 | 16 | 9.0 | 7.0 | 8.5 |
| Acre-ft. | 2810 | ..... | ..... | ..... | ..... | ..... | 2680 | 7220 | 3190 | 907 | 672 | 1160 |

Total run-off for period=18,639 acre-feet.

**Discharge of Los Pinos River Below Snowslide Canon Near Weminuche Pass, Colorado,
for Year Ending Sept. 30, 1940.**

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|--------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| 1.... | 14 | 12 | ..... | ..... | ..... | ..... | 45 | 44 | 50 | 17 | 7.2 | 9.3 |
| 2.... | 13 | 9.9 | ..... | ..... | ..... | ..... | 45 | 54 | 45 | 15 | 7.2 | 9.9 |
| 3.... | 13 | 8.8 | ..... | ..... | ..... | ..... | 45 | 76 | 40 | 14 | 7.7 | 11 |
| 4.... | 12 | 7.7 | ..... | ..... | ..... | ..... | 45 | 100 | 38 | 13 | 6.6 | 9.9 |
| 5.... | 12 | 7.7 | ..... | ..... | ..... | ..... | 45 | 110 | 36 | 13 | 7.7 | 9.3 |
| 6.... | 12 | 5.5 | ..... | ..... | ..... | ..... | 45 | 100 | 32 | 13 | 10 | 8.8 |
| 7.... | 12 | 7.2 | ..... | ..... | ..... | ..... | 45 | 105 | 28 | 13 | 9.3 | 8.8 |
| 8.... | 14 | 7.2 | ..... | ..... | ..... | ..... | 45 | 100 | 27 | 14 | 8.2 | 8.2 |
| 9.... | 13 | 5.0 | ..... | ..... | ..... | ..... | 45 | 95 | 24 | 13 | 7.2 | 7.7 |
| 10.... | 14 | 7.7 | ..... | ..... | ..... | ..... | 45 | 106 | 24 | 13 | 6.6 | 7.7 |
| 11.... | 14 | ..... | ..... | ..... | ..... | ..... | 45 | 108 | 28 | 12 | 6.6 | 8.2 |
| 12.... | 13 | ..... | ..... | ..... | ..... | ..... | 45 | 91 | 28 | 12 | 6.1 | 8.8 |
| 13.... | 12 | ..... | ..... | ..... | ..... | ..... | 45 | 111 | 26 | 12 | 6.6 | 9.3 |
| 14.... | 12 | ..... | ..... | ..... | ..... | ..... | 45 | 115 | 25 | 11 | 6.6 | 8.2 |
| 15.... | 10 | ..... | ..... | ..... | ..... | ..... | 45 | 106 | 25 | 11 | 6.6 | 7.7 |
| 16.... | 10 | ..... | ..... | ..... | ..... | ..... | 45 | 93 | 24 | 12 | 6.6 | 7.2 |
| 17.... | 9.9 | ..... | ..... | ..... | ..... | ..... | 45 | 80 | 23 | 11 | 6.6 | 12 |
| 18.... | 9.3 | ..... | ..... | ..... | ..... | ..... | 45 | 66 | 21 | 10 | 8.8 | 7.0 |
| 19.... | 8.8 | ..... | ..... | ..... | ..... | ..... | 45 | 62 | 20 | 9.3 | 12 | 5.8 |
| 20.... | 8.8 | ..... | ..... | ..... | ..... | ..... | 45 | 56 | 20 | 9.3 | 14 | 3.9 |
| 21.... | 8.8 | ..... | ..... | ..... | ..... | ..... | 45 | 52 | 19 | 9.3 | 11 | 3.0 |
| 22.... | 8.2 | ..... | ..... | ..... | ..... | ..... | 45 | 48 | 18 | 8.2 | 10 | 3.1 |
| 23.... | 8.2 | ..... | ..... | ..... | ..... | ..... | 45 | 52 | 17 | 7.7 | 10 | 2.6 |
| 24.... | 8.8 | ..... | ..... | ..... | ..... | ..... | 45 | 58 | 16 | 8.2 | 16 | 2.4 |
| 25.... | 8.8 | ..... | ..... | ..... | ..... | ..... | 45 | 59 | 15 | 7.7 | 15 | 2.5 |
| 26.... | 12 | ..... | ..... | ..... | ..... | ..... | 45 | 63 | 15 | 7.7 | 14 | 2.3 |
| 27.... | 18 | ..... | ..... | ..... | ..... | ..... | 45 | 65 | 15 | 9.3 | 12 | 2.0 |
| 28.... | 18 | ..... | ..... | ..... | ..... | ..... | 45 | 58 | 14 | 12 | 11 | 2.4 |
| 29.... | 15 | ..... | ..... | ..... | ..... | ..... | 45 | 55 | 16 | 10 | 11 | 5.0 |
| 30.... | 16 | Nov. 1 | ..... | ..... | ..... | ..... | 45 | 53 | 24 | 9.3 | 9.9 | 5.8 |
| 31.... | 12 | to 10 | ..... | ..... | ..... | ..... | ..... | 53 | ..... | 8.2 | 9.9 | ..... |
| Total | 370.6 | 78.7 | ..... | ..... | ..... | ..... | 1350 | 2394 | 753 | 345.2 | 288.0 | 630.0 |
| Mean... | 12.0 | 7.87 | ..... | ..... | ..... | ..... | 45 | 77.2 | 25.1 | 11.1 | 9.29 | 21.0 |
| Max.... | 18 | 12 | ..... | ..... | ..... | ..... | ..... | 115 | 50 | 17 | 16 | 7.0 |
| Min.... | 8.2 | 5.0 | ..... | ..... | ..... | ..... | ..... | 44 | 14 | 7.7 | 6.1 | 7.2 |
| Acre-ft. | 735 | 156 | ..... | ..... | ..... | ..... | 2680 | 4750 | 1490 | 685 | 571 | 1250 |

Total run-off for period=12,320 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Pine or Los Pinos River Near Bayfield, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------------|-------|------|------|------|------|-------|-------|-------|-------|------|-------|-------|
| 1.... | 217 | 241 | 115 | 74 | 58 | 60 | 231 | 735 | 894 | 263 | 162 | 169 |
| 2.... | 211 | 239 | 111 | 74 | 59 | 66 | 278 | 951 | 838 | 247 | 143 | 150 |
| 3.... | 260 | 225 | 102 | 74 | 62 | 60 | 291 | 838 | 866 | 247 | 134 | 136 |
| 4.... | 263 | 228 | 107 | 75 | 63 | 62 | 317 | 824 | 1000 | 240 | 127 | 125 |
| 5.... | 250 | 240 | 107 | 75 | 66 | 62 | 321 | 1070 | 1070 | 234 | 123 | 123 |
| 6.... | 349 | 210 | 105 | 74 | 64 | 59 | 332 | 1160 | 908 | 225 | 121 | 302 |
| 7.... | 499 | 160 | 100 | 74 | 63 | 60 | 324 | 915 | 782 | 214 | 152 | 406 |
| 8.... | 612 | 195 | 97 | 75 | 62 | 60 | 324 | 915 | 726 | 206 | 150 | 582 |
| 9.... | 520 | 215 | 90 | 75 | 60 | 60 | 370 | 1040 | 700 | 197 | 129 | 642 |
| 10.... | 468 | 212 | 84 | 74 | 54 | 64 | 379 | 1200 | 694 | 194 | 119 | 537 |
| 11.... | 444 | 193 | 88 | 70 | 56 | 64 | 345 | 1300 | 700 | 185 | 113 | 714 |
| 12.... | 420 | 197 | 87 | 66 | 57 | 66 | 336 | 1160 | 662 | 179 | 104 | 768 |
| 13.... | 434 | 149 | 84 | 68 | 57 | 70 | 340 | 1020 | 655 | 167 | 98 | 707 |
| 14.... | 478 | 169 | 75 | 69 | 57 | 78 | 349 | 873 | 630 | 157 | 95 | 582 |
| 15.... | 263 | 200 | 82 | 69 | 54 | 86 | 328 | 859 | 564 | 152 | 92 | 537 |
| 16.... | 222 | 178 | 90 | 68 | 62 | 100 | 298 | 817 | 520 | 157 | 90 | 454 |
| 17.... | 454 | 168 | 86 | 69 | 57 | 110 | 270 | 720 | 468 | 143 | 90 | 397 |
| 18.... | 458 | 152 | 75 | 70 | 55 | 120 | 260 | 700 | 402 | 134 | 90 | 357 |
| 19.... | 430 | 155 | 87 | 75 | 59 | 129 | 274 | 973 | 353 | 127 | 86 | 313 |
| 20.... | 402 | 164 | 88 | 68 | 62 | 174 | 298 | 1220 | 321 | 121 | 81 | 291 |
| 21.... | 383 | 152 | 90 | 68 | 56 | 198 | 349 | 1230 | 294 | 115 | 76 | 247 |
| 22.... | 366 | 148 | 81 | 69 | 54 | 211 | 434 | 1300 | 280 | 117 | 78 | 250 |
| 23.... | 349 | 120 | 74 | 66 | 55 | 257 | 520 | 1240 | 277 | 119 | 76 | 234 |
| 24.... | 328 | 110 | 68 | 62 | 57 | 284 | 463 | 1040 | 284 | 111 | 75 | 217 |
| 25.... | 321 | 110 | 70 | 66 | 59 | 270 | 420 | 831 | 280 | 107 | 75 | 206 |
| 26.... | 309 | 109 | 74 | 68 | 59 | 277 | 402 | 789 | 274 | 104 | 84 | 203 |
| 27.... | 294 | 107 | 72 | 66 | 62 | 280 | 463 | 880 | 267 | 105 | 97 | 225 |
| 28.... | 284 | 107 | 75 | 64 | 72 | 260 | 600 | 958 | 270 | 125 | 105 | 211 |
| 29.... | 270 | 104 | 76 | 62 | .... | 244 | 761 | 1040 | 267 | 164 | 225 | 195 |
| 30.... | 250 | 109 | 74 | 62 | .... | 228 | 707 | 1050 | 263 | 177 | 238 | 182 |
| 31.... | 234 | .... | 74 | 62 | .... | 222 | .... | 887 | .... | 179 | 195 | .... |
| Total | 11042 | 5066 | 2688 | 2151 | 1661 | 4341 | 11334 | 30535 | 16509 | 5212 | 3623 | 10482 |
| Mean. | 356 | 169 | 86.7 | 69.4 | 59.3 | 140 | 378 | 985 | 550 | 168 | 117 | 349 |
| Max. | 612 | 241 | 115 | 75 | 72 | 284 | 761 | 1300 | 1070 | 263 | 238 | 768 |
| Min. | 211 | 104 | 68 | 62 | 54 | 59 | 228 | 700 | 263 | 104 | 75 | 123 |
| Acre-ft. 21900 | 10050 | 5330 | 4270 | 3290 | 8610 | 22480 | 60570 | 32750 | 10340 | 7190 | 20790 | .... |

Total run-off for water year 1938-39=207,570 acre-feet.

Discharge of Pine or Los Pinos River Near Bayfield, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------------|------|------|------|------|------|------|-------|-------|-------|------|------|-------|
| 1.... | 169 | 119 | 74 | 56 | 56 | 66 | 195 | 484 | 727 | 222 | 113 | 109 |
| 2.... | 162 | 123 | 74 | 56 | 62 | 63 | 195 | 588 | 714 | 208 | 107 | 105 |
| 3.... | 152 | 123 | 70 | 56 | 60 | 64 | 184 | 554 | 694 | 190 | 102 | 105 |
| 4.... | 143 | 121 | 72 | 56 | 59 | 63 | 177 | 642 | 662 | 174 | 95 | 105 |
| 5.... | 138 | 119 | 75 | 56 | 56 | 62 | 177 | 768 | 520 | 164 | 90 | 98 |
| 6.... | 134 | 123 | 74 | 53 | 54 | 62 | 179 | 852 | 484 | 155 | 88 | 95 |
| 7.... | 132 | 121 | 72 | 50 | 54 | 60 | 174 | 922 | 458 | 145 | 98 | 88 |
| 8.... | 143 | 115 | 70 | 48 | 55 | 62 | 174 | 958 | 484 | 134 | 102 | 88 |
| 9.... | 150 | 117 | 70 | 53 | 55 | 68 | 172 | 966 | 444 | 127 | 92 | 84 |
| 10.... | 138 | 119 | 70 | 54 | 58 | 70 | 177 | 996 | 374 | 129 | 86 | 81 |
| 11.... | 134 | 111 | 70 | 54 | 58 | 70 | 177 | 1030 | 345 | 132 | 80 | 80 |
| 12.... | 132 | 111 | 68 | 59 | 59 | 64 | 182 | 1040 | 324 | 119 | 76 | 76 |
| 13.... | 127 | 109 | 62 | 56 | 59 | 59 | 206 | 1040 | 345 | 111 | 76 | 74 |
| 14.... | 125 | 105 | 59 | 52 | 55 | 59 | 267 | 1060 | 345 | 113 | 76 | 70 |
| 15.... | 121 | 102 | 58 | 50 | 60 | 64 | 340 | 1070 | 305 | 115 | 74 | 69 |
| 16.... | 117 | 98 | 59 | 50 | 56 | 70 | 340 | 1080 | 270 | 113 | 74 | 68 |
| 17.... | 113 | 93 | 60 | 53 | 56 | 76 | 302 | 1090 | 270 | 117 | 74 | 70 |
| 18.... | 109 | 93 | 60 | 56 | 58 | 81 | 62 | 1090 | 267 | 127 | 70 | 152 |
| 19.... | 105 | 92 | 54 | 55 | 55 | 87 | 10 | 1040 | 305 | 127 | 69 | 484 |
| 20.... | 102 | 88 | 53 | 58 | 56 | 93 | 10 | 915 | 324 | 123 | 87 | 582 |
| 21.... | 98 | 88 | 53 | 54 | 55 | 105 | 19 | 754 | 274 | 119 | 105 | 542 |
| 22.... | 97 | 87 | 53 | 55 | 56 | 127 | 353 | 754 | 250 | 115 | 102 | 504 |
| 23.... | 95 | 86 | 54 | 54 | 59 | 157 | 554 | 714 | 247 | 113 | 100 | 484 |
| 24.... | 93 | 86 | 54 | 54 | 60 | 182 | 655 | 681 | 234 | 113 | 109 | 439 |
| 25.... | 97 | 84 | 59 | 54 | 59 | 211 | 662 | 714 | 217 | 105 | 129 | 383 |
| 26.... | 127 | 82 | 58 | 55 | 62 | 238 | 588 | 768 | 206 | 100 | 143 | 349 |
| 27.... | 127 | 86 | 50 | 55 | 62 | 241 | 570 | 768 | 192 | 104 | 148 | 324 |
| 28.... | 117 | 86 | 52 | 54 | 62 | 228 | 510 | 775 | 182 | 113 | 141 | 309 |
| 29.... | 117 | 82 | 55 | 53 | 64 | 208 | 434 | 768 | 174 | 123 | 132 | 366 |
| 30.... | 115 | 78 | 53 | 54 | .... | 195 | 388 | 768 | 197 | 121 | 123 | 520 |
| 31.... | 115 | .... | 56 | 54 | .... | 195 | .... | 741 | .... | 119 | 117 | .... |
| Total | 3844 | 3047 | 1921 | 1677 | 1680 | 3450 | 8433 | 26390 | 10834 | 4090 | 3078 | 6903 |
| Mean. | 124 | 102 | 62.0 | 54.1 | 57.9 | 111 | 281 | 851 | 364 | 132 | 99.3 | 230 |
| Max. | 169 | 123 | 75 | 59 | 64 | 241 | 662 | 1090 | 748 | 222 | 148 | 582 |
| Min. | 93 | 78 | 50 | 48 | 54 | 59 | 10 | 484 | 174 | 100 | 69 | 68 |
| Acre-ft. 7620 | 6040 | 3810 | 3330 | 3330 | 3330 | 6840 | 16730 | 52340 | 21490 | 8110 | 6110 | 13690 |

Total run-off for water year 1939-40=149,440 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Pine or Los Pinos River at Ignacio, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|------|------|------|-------|-------|-------|--------|-------|-------|--------|
| 1.... | 48 | 231 | 69 | 85 | 70 | 70 | 291 | 648 | 543 | 5.2 | 5.2 | 12 |
| 2.... | 44 | 234 | 72 | 85 | 65 | 75 | 330 | 786 | 456 | 4.9 | 4.0 | 9.5 |
| 3.... | 77 | 220 | 69 | 90 | 60 | 80 | 397 | 698 | 445 | 4.6 | 3.5 | 7.6 |
| 4.... | 92 | 214 | 72 | 90 | 65 | 80 | 484 | 641 | 495 | 4.6 | 4.3 | 6.8 |
| 5.... | 77 | 214 | 96 | 85 | 60 | 75 | 423 | 810 | 555 | 4.6 | 4.0 | 8.0 |
| 6.... | 132 | 210 | 94 | 90 | 65 | 70 | 418 | 958 | 439 | 4.6 | 4.9 | 21 |
| 7.... | 339 | 188 | 96 | 94 | 70 | 80 | 397 | 746 | 317 | 4.0 | 6.0 | 134 |
| 8.... | 525 | 174 | 94 | 90 | 75 | 85 | 397 | 655 | 256 | 4.0 | 5.7 | 230 |
| 9.... | 403 | 180 | 88 | 86 | 65 | 90 | 434 | 698 | 238 | 3.8 | 4.6 | 418 |
| 10.... | 363 | 180 | 85 | 86 | 55 | 100 | 456 | 859 | 198 | 3.5 | 3.8 | 321 |
| 11.... | 349 | 168 | 86 | 83 | 65 | 100 | 423 | 949 | 198 | 3.5 | 3.5 | 513 |
| 12.... | 308 | 166 | 90 | 81 | 70 | 100 | 403 | 826 | 174 | 4.0 | 3.5 | 525 |
| 13.... | 321 | 157 | 98 | 77 | 75 | 105 | 413 | 683 | 129 | 4.0 | 3.2 | 501 |
| 14.... | 358 | 147 | 94 | 75 | 80 | 109 | 413 | 519 | 113 | 4.0 | 3.5 | 408 |
| 15.... | 358 | 134 | 98 | 75 | 85 | 122 | 397 | 467 | 90 | 4.6 | 3.5 | 382 |
| 16.... | 56 | 142 | 107 | 80 | 85 | 134 | 363 | 434 | 52 | 4.3 | 3.2 | 276 |
| 17.... | 297 | 137 | 107 | 80 | 90 | 157 | 335 | 373 | 32 | 3.8 | 4.9 | 210 |
| 18.... | 429 | 137 | 96 | 80 | 90 | 180 | 317 | 326 | 28 | 3.2 | 5.4 | 217 |
| 19.... | 392 | 129 | 92 | 75 | 85 | 207 | 326 | 450 | 22 | 3.0 | 6.4 | 127 |
| 20.... | 363 | 127 | 103 | 75 | 75 | 245 | 349 | 722 | 18 | 2.9 | 6.8 | 105 |
| 21.... | 330 | 127 | 107 | 90 | 65 | 287 | 387 | 786 | 13 | 2.9 | 7.2 | 70 |
| 22.... | 308 | 122 | 103 | 98 | 65 | 358 | 456 | 794 | 8.7 | 2.7 | 7.6 | 50 |
| 23.... | 279 | 125 | 94 | 94 | 70 | 423 | 543 | 754 | 8.0 | 2.7 | 7.6 | 38 |
| 24.... | 256 | 122 | 88 | 92 | 75 | 423 | 507 | 588 | 6.8 | 2.9 | 7.6 | 30 |
| 25.... | 234 | 107 | 79 | 80 | 75 | 377 | 413 | 445 | 5.7 | 3.8 | 7.2 | 26 |
| 26.... | 227 | 105 | 88 | 80 | 75 | 368 | 363 | 363 | 5.4 | 4.3 | 8.3 | 26 |
| 27.... | 220 | 107 | 83 | 80 | 70 | 397 | 392 | 392 | 5.4 | 4.3 | 7.6 | 28 |
| 28.... | 210 | 100 | 88 | 85 | 70 | 353 | 501 | 473 | 4.9 | 1.5 | 12 | 32 |
| 29.... | 210 | 77 | 85 | 75 | .... | 349 | 662 | 543 | 5.2 | 20 | 21 | 25 |
| 30.... | 220 | 69 | 80 | 80 | .... | 308 | 662 | 588 | 5.2 | 8.7 | 14 | 21 |
| 31.... | 224 | .... | 80 | 85 | .... | 287 | .... | 543 | .... | 8.0 | 13 | .... |
| Total | 8049 | 4550 | 2781 | 2601 | 2015 | 6194 | 12652 | 19517 | 4866.3 | 156.4 | 203.0 | 4777.9 |
| Mean. | 260 | 152 | 89.7 | 83.9 | 72.0 | 200 | 422 | 630 | 162 | 5.05 | 6.55 | 159 |
| Max. | 525 | 234 | 107 | 98 | 90 | 423 | 662 | 958 | 555 | 20 | 21 | 525 |
| Min. | 44 | 69 | 69 | 75 | 55 | 70 | 291 | 326 | 4.9 | 2.7 | 3.2 | 6.8 |
| Acre-ft. | 15960 | 9020 | 5520 | 5160 | 4000 | 12290 | 25090 | 38710 | 9650 | 310 | 403 | 9480 |

Total run-off for water year 1938-39=135,590 acre-feet.

Discharge of Pine or Los Pinos River at Ignacio, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|--------|-------|-------|--------|
| 1.... | 18 | 67 | 74 | 60 | 70 | 108 | 217 | 268 | 224 | 5.4 | 2.3 | 15 |
| 2.... | 15 | 69 | 72 | 55 | 65 | 100 | 224 | 450 | 214 | 5.1 | 2.1 | 14 |
| 3.... | 14 | 74 | 59 | 60 | 60 | 102 | 214 | 372 | 192 | 4.5 | 1.9 | 15 |
| 4.... | 14 | 94 | 34 | 65 | 69 | 96 | 208 | 395 | 181 | 4.2 | 1.9 | 20 |
| 5.... | 18 | 94 | 31 | 60 | 64 | 98 | 204 | 502 | 93 | 5.1 | 1.9 | 18 |
| 6.... | 21 | 90 | 31 | 60 | 70 | 102 | 211 | 571 | 29 | 5.9 | 2.7 | 14 |
| 7.... | 17 | 96 | 29 | 55 | 65 | 96 | 204 | 620 | 20 | 5.9 | 3.6 | 14 |
| 8.... | 25 | 98 | 29 | 55 | 59 | 108 | 201 | 641 | 16 | 4.8 | 3.3 | 13 |
| 9.... | 22 | 100 | 29 | 60 | 65 | 138 | 201 | 634 | 19 | 4.8 | 3.0 | 10 |
| 10.... | 23 | 98 | 37 | 60 | 65 | 126 | 201 | 648 | 12 | 4.2 | 3.3 | 8.6 |
| 11.... | 23 | 92 | 72 | 60 | 64 | 117 | 201 | 690 | 8.6 | 3.9 | 3.9 | 11 |
| 12.... | 22 | 88 | 72 | 55 | 65 | 98 | 208 | 676 | 8.2 | 4.2 | 4.2 | 8.6 |
| 13.... | 20 | 87 | 67 | 50 | 65 | 85 | 220 | 669 | 7.7 | 4.2 | 3.6 | 10 |
| 14.... | 15 | 85 | 64 | 50 | 70 | 81 | 273 | 669 | 8.2 | 4.5 | 3.9 | 10 |
| 15.... | 25 | 81 | 62 | 50 | 69 | 92 | 341 | 648 | 8.2 | 3.9 | 3.9 | 9.5 |
| 16.... | 25 | 76 | 62 | 60 | 56 | 106 | 358 | 641 | 7.2 | 4.2 | 4.5 | 10 |
| 17.... | 25 | 72 | 60 | 60 | 64 | 117 | 325 | 683 | 5.9 | 8.0 | 4.5 | 11 |
| 18.... | 25 | 70 | 60 | 60 | 65 | 124 | 243 | 714 | 5.9 | 6.3 | 4.2 | 29 |
| 19.... | 25 | 70 | 56 | 60 | 67 | 126 | 72 | 655 | 5.1 | 5.1 | 3.6 | 220 |
| 20.... | 25 | 69 | 40 | 55 | 60 | 129 | 53 | 557 | 6.8 | 4.8 | 5.1 | 425 |
| 21.... | 40 | 67 | 45 | 60 | 59 | 136 | 50 | 410 | 8.6 | 4.8 | 5.9 | 420 |
| 22.... | 32 | 97 | 45 | 60 | 64 | 156 | 184 | 354 | 7.7 | 4.5 | 4.8 | 376 |
| 23.... | 29 | 70 | 60 | 60 | 67 | 181 | 465 | 321 | 5.9 | 4.2 | 5.1 | 363 |
| 24.... | 24 | 67 | 55 | 60 | 69 | 204 | 599 | 258 | 5.4 | 3.6 | 12 | 350 |
| 25.... | 26 | 69 | 60 | 60 | 74 | 227 | 613 | 240 | 5.1 | 3.0 | 24 | 309 |
| 26.... | 96 | 72 | 60 | 60 | 87 | 258 | 550 | 289 | 4.8 | 2.7 | 19 | 265 |
| 27.... | 88 | 77 | 45 | 60 | 92 | 273 | 490 | 285 | 4.5 | 3.3 | 14 | 230 |
| 28.... | 74 | 79 | 45 | 55 | 98 | 273 | 445 | 281 | 4.5 | 3.6 | 15 | 214 |
| 29.... | 69 | 79 | 50 | 55 | 108 | 237 | 333 | 262 | 4.8 | 3.0 | 18 | 237 |
| 30.... | 67 | 77 | 55 | 60 | .... | 217 | 265 | 281 | 6.3 | 2.4 | 17 | 372 |
| 31.... | 67 | .... | 60 | 65 | .... | 214 | .... | 254 | .... | 2.1 | 15 | .... |
| Total | 1029 | 2394 | 1620 | 1805 | 2015 | 4525 | 8373 | 14938 | 1129.4 | 136.2 | 217.2 | 4021.7 |
| Mean. | 33.2 | 79.8 | 52.3 | 58.2 | 69.5 | 146 | 279 | 482 | 37.6 | 4.39 | 7.01 | 134 |
| Max. | 96 | 100 | 74 | 65 | 108 | 273 | 613 | 714 | 224 | 8.0 | 24 | 425 |
| Min. | 14 | 67 | 29 | 50 | 56 | 81 | 50 | 240 | 4.5 | 2.1 | 1.9 | 8.6 |
| Acre-ft. | 2040 | 4750 | 3210 | 3580 | 4000 | 8980 | 16610 | 29630 | 2240 | 270 | 431 | 7980 |

Total run-off for water year 1939-40=83,720 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Animas River at Howardsville, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 45 | 57 | .... | .... | .... | 15 | 26 | 223 | 410 | 158 | 60 | 32 |
| 2.... | 48 | 57 | .... | .... | .... | 15 | 27 | 258 | 396 | 155 | 55 | 32 |
| 3.... | 49 | 54 | .... | .... | .... | 15 | 28 | 234 | 470 | 160 | 51 | 30 |
| 4.... | 46 | 56 | .... | .... | .... | 15 | 30 | 282 | 548 | 160 | 48 | 30 |
| 5.... | 56 | 54 | .... | .... | .... | 15 | 32 | 332 | 530 | 160 | 46 | 35 |
| 6.... | 72 | 48 | .... | .... | .... | 15 | 36 | 298 | 460 | 158 | 66 | 76 |
| 7.... | 82 | 46 | .... | .... | .... | 15 | 39 | 223 | 425 | 142 | 78 | 70 |
| 8.... | 88 | 45 | .... | .... | .... | 15 | 39 | 220 | 430 | 138 | 59 | 99 |
| 9.... | 82 | 46 | .... | .... | .... | 15 | 39 | 282 | 460 | 135 | 53 | 86 |
| 10.... | 78 | 44 | .... | .... | .... | 15 | 39 | 364 | 465 | 132 | 55 | 83 |
| 11.... | 76 | 44 | .... | .... | .... | 15 | 40 | 364 | 455 | 125 | 51 | 113 |
| 12.... | 74 | 42 | .... | .... | .... | 15 | 40 | 310 | 465 | 120 | 47 | 150 |
| 13.... | 77 | 40 | .... | .... | .... | 15 | 40 | 250 | 495 | 109 | 42 | 140 |
| 14.... | 84 | 38 | .... | .... | .... | 15 | 40 | 238 | 485 | 103 | 42 | 118 |
| 15.... | 120 | 37 | .... | .... | .... | 15 | 40 | 274 | 430 | 103 | 39 | 99 |
| 16.... | 130 | 37 | .... | .... | .... | 15 | 41 | 270 | 382 | 97 | 37 | 90 |
| 17.... | 116 | 36 | .... | .... | .... | 15 | 44 | 246 | 350 | 86 | 35 | 78 |
| 18.... | 108 | 34 | .... | .... | .... | 15 | 46 | 274 | 270 | 78 | 34 | 70 |
| 19.... | 96 | 34 | .... | .... | .... | 15 | 50 | 382 | 212 | 72 | 32 | 66 |
| 20.... | 87 | 34 | .... | .... | .... | 16 | 54 | 415 | 183 | 69 | 31 | 60 |
| 21.... | 79 | 33 | .... | .... | .... | 17 | 56 | 460 | 168 | 64 | 32 | 56 |
| 22.... | 76 | 30 | .... | .... | .... | 19 | 66 | 465 | 189 | 59 | 31 | 54 |
| 23.... | 69 | 28 | .... | .... | .... | 22 | 75 | 415 | 206 | 56 | 31 | 49 |
| 24.... | 66 | 27 | .... | .... | .... | 24 | 68 | 342 | 206 | 51 | 33 | 49 |
| 25.... | 65 | 27 | .... | .... | .... | 24 | 68 | 286 | 206 | 48 | 31 | 48 |
| 26.... | 62 | 27 | .... | .... | .... | 24 | 78 | 286 | 202 | 54 | 31 | 47 |
| 27.... | 62 | 26 | .... | .... | .... | 24 | 120 | 360 | 192 | 62 | 32 | 45 |
| 28.... | 56 | 26 | .... | .... | .... | 23 | 177 | 450 | 186 | 80 | 34 | 42 |
| 29.... | 54 | 27 | .... | .... | .... | 23 | 202 | 512 | 189 | 76 | 35 | 42 |
| 30.... | 53 | 27 | .... | .... | .... | 24 | 195 | 506 | 171 | 72 | 36 | 39 |
| 31.... | 54 | .... | .... | .... | .... | 25 | .... | 465 | .... | 68 | 34 | .... |
| Total | 2310 | 1161 | .... | .... | .... | 550 | 1875 | 10286 | 10236 | 3150 | 1321 | 2028 |
| Mean. | 74.5 | 38.7 | .... | .... | .... | 17.7 | 62.5 | 332 | 341 | 102 | 42.6 | 67.6 |
| Max.. | 130 | 57 | .... | .... | .... | 25 | 202 | 512 | 548 | 160 | 78 | 150 |
| Min.. | 45 | 26 | .... | .... | .... | 15 | 26 | 220 | 168 | 48 | 31 | 30 |
| Acre-ft. | 4580 | 2300 | .... | .... | .... | 1090 | 3720 | 20400 | 20300 | 6250 | 2620 | 4020 |

Total run-off for period=65,280 acre-feet.

Discharge of Animas River at Howardsville, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 40 | 22 | 18 | 16 | 15 | 14 | 20 | 88 | 584 | 114 | 36 | 29 |
| 2.... | 38 | 22 | 18 | 16 | 15 | 14 | 20 | 99 | 548 | 105 | 35 | 29 |
| 3.... | 36 | 22 | 18 | 16 | 14 | 14 | 19 | 144 | 475 | 98 | 33 | 30 |
| 4.... | 35 | 22 | 18 | 16 | 15 | 13 | 19 | 202 | 440 | 91 | 32 | 29 |
| 5.... | 32 | 22 | 18 | 16 | 15 | 14 | 19 | 232 | 405 | 84 | 31 | 28 |
| 6.... | 31 | 22 | 18 | 16 | 15 | 14 | 20 | 248 | 355 | 78 | 31 | 29 |
| 7.... | 29 | 22 | 17 | 15 | 15 | 14 | 20 | 292 | 350 | 75 | 32 | 29 |
| 8.... | 32 | 22 | 17 | 14 | 15 | 14 | 20 | 320 | 340 | 70 | 29 | 28 |
| 9.... | 32 | 22 | 16 | 15 | 15 | 14 | 20 | 430 | 292 | 65 | 28 | 27 |
| 10.... | 28 | 21 | 17 | 16 | 15 | 14 | 20 | 495 | 276 | 62 | 27 | 26 |
| 11.... | 28 | 20 | 16 | 16 | 14 | 14 | 20 | 524 | 305 | 59 | 26 | 26 |
| 12.... | 28 | 20 | 16 | 16 | 15 | 14 | 20 | 548 | 350 | 56 | 26 | 27 |
| 13.... | 28 | 21 | 16 | 15 | 15 | 13 | 24 | 500 | 380 | 57 | 24 | 28 |
| 14.... | 27 | 20 | 16 | 14 | 15 | 14 | 28 | 495 | 395 | 57 | 24 | 27 |
| 15.... | 27 | 20 | 16 | 13 | 14 | 14 | 32 | 506 | 350 | 53 | 25 | 27 |
| 16.... | 26 | 20 | 16 | 12 | 14 | 14 | 31 | 475 | 310 | 56 | 25 | 26 |
| 17.... | 26 | 20 | 16 | 14 | 14 | 14 | 29 | 400 | 310 | 57 | 24 | 32 |
| 18.... | 25 | 20 | 16 | 15 | 15 | 14 | 37 | 280 | 276 | 54 | 24 | 75 |
| 19.... | 25 | 20 | 16 | 14 | 15 | 14 | 57 | 228 | 252 | 49 | 26 | 89 |
| 20.... | 24 | 20 | 16 | 15 | 15 | 14 | 94 | 224 | 228 | 48 | 29 | 81 |
| 21.... | 24 | 20 | 16 | 16 | 14 | 14 | 132 | 202 | 220 | 46 | 28 | 81 |
| 22.... | 24 | 19 | 16 | 20 | 14 | 15 | 148 | 192 | 210 | 46 | 29 | 88 |
| 23.... | 23 | 19 | 16 | 17 | 14 | 16 | 174 | 260 | 199 | 45 | 32 | 83 |
| 24.... | 23 | 19 | 16 | 16 | 14 | 17 | 185 | 360 | 188 | 43 | 36 | 78 |
| 25.... | 24 | 19 | 15 | 15 | 13 | 20 | 174 | 425 | 169 | 41 | 40 | 74 |
| 26.... | 24 | 19 | 14 | 15 | 14 | 20 | 172 | 440 | 153 | 42 | 40 | 71 |
| 27.... | 22 | 19 | 14 | 15 | 14 | 20 | 169 | 485 | 139 | 40 | 38 | 65 |
| 28.... | 21 | 19 | 15 | 14 | 13 | 20 | 132 | 506 | 132 | 42 | 36 | 67 |
| 29.... | 21 | 19 | 15 | 15 | 14 | 20 | 108 | 518 | 125 | 40 | 33 | 78 |
| 30.... | 22 | 18 | 15 | 15 | .... | 20 | 98 | 572 | 132 | 39 | 32 | 94 |
| 31.... | 22 | .... | 15 | 15 | .... | 20 | .... | 578 | .... | 36 | 31 | .... |
| Total | 847 | 610 | 502 | 473 | 419 | 480 | 2061 | 11268 | 8888 | 1848 | 942 | 1501 |
| Mean. | 27.3 | 20.3 | 16.2 | 15.3 | 14.4 | 15.5 | 68.7 | 363 | 296 | 59.6 | 30.4 | 50.0 |
| Max.. | 40 | 22 | 18 | 20 | 15 | 20 | 185 | 578 | 584 | 114 | 40 | 94 |
| Min.. | 21 | 18 | 14 | 12 | 13 | 13 | 19 | 88 | 125 | 36 | 24 | 26 |
| Acre-ft. | 1680 | 1210 | 996 | 938 | 831 | 952 | 4090 | 22350 | 17630 | 3670 | 1870 | 2980 |

Total run-off for water year 1939-40=59,200 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Animas River at Durango, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|------|-------|-------|--------|-------|-------|-------|-------|
| 1.... | 319 | 417 | 266 | 194 | 160 | 183 | 462 | 1540 | 1850 | 638 | 373 | 319 |
| 2.... | 311 | 422 | 258 | 205 | 173 | 180 | 577 | 1860 | 1660 | 613 | 341 | 303 |
| 3.... | 341 | 402 | 239 | 208 | 170 | 187 | 656 | 1640 | 1800 | 619 | 328 | 278 |
| 4.... | 332 | 393 | 246 | 205 | 166 | 194 | 676 | 1640 | 2120 | 619 | 311 | 258 |
| 5.... | 337 | 402 | 250 | 194 | 165 | 187 | 650 | 2080 | 2340 | 607 | 319 | 250 |
| 6.... | 407 | 373 | 239 | 208 | 165 | 190 | 701 | 2270 | 2020 | 613 | 298 | 488 |
| 7.... | 543 | 337 | 239 | 212 | 170 | 194 | 650 | 1680 | 1760 | 577 | 393 | 676 |
| 8.... | 736 | 346 | 239 | 212 | 180 | 201 | 650 | 1570 | 1660 | 554 | 398 | 728 |
| 9.... | 701 | 364 | 231 | 220 | 180 | 201 | 764 | 1830 | 1670 | 538 | 355 | 830 |
| 10.... | 638 | 350 | 231 | 205 | 170 | 205 | 757 | 2240 | 1720 | 516 | 328 | 701 |
| 11.... | 607 | 341 | 235 | 201 | 165 | 212 | 656 | 2340 | 1740 | 499 | 303 | 1020 |
| 12.... | 577 | 337 | 235 | 190 | 165 | 208 | 644 | 2160 | 1620 | 477 | 278 | 1310 |
| 13.... | 588 | 319 | 227 | 194 | 170 | 212 | 676 | 1820 | 1720 | 452 | 262 | 1380 |
| 14.... | 625 | 315 | 208 | 198 | 180 | 235 | 695 | 1500 | 1760 | 427 | 246 | 1080 |
| 15.... | 682 | 319 | 220 | 187 | 190 | 258 | 625 | 1520 | 1640 | 417 | 235 | 845 |
| 16.... | 816 | 311 | 242 | 216 | 190 | 266 | 577 | 1520 | 1380 | 422 | 231 | 701 |
| 17.... | 801 | 307 | 231 | 201 | 176 | 303 | 532 | 1380 | 1280 | 388 | 223 | 613 |
| 18.... | 721 | 303 | 220 | 212 | 166 | 337 | 516 | 1310 | 1080 | 373 | 216 | 549 |
| 19.... | 663 | 290 | 235 | 216 | 190 | 388 | 554 | 1730 | 896 | 346 | 208 | 499 |
| 20.... | 619 | 298 | 235 | 208 | 183 | 462 | 600 | 2240 | 779 | 324 | 201 | 477 |
| 21.... | 588 | 298 | 239 | 205 | 163 | 494 | 701 | 2330 | 701 | 307 | 208 | 442 |
| 22.... | 560 | 282 | 231 | 208 | 205 | 499 | 878 | 2460 | 701 | 294 | 205 | 417 |
| 23.... | 532 | 278 | 212 | 201 | 205 | 554 | 1070 | 2390 | 736 | 286 | 201 | 402 |
| 24.... | 510 | 282 | 194 | 183 | 183 | 600 | 923 | 2020 | 750 | 282 | 205 | 378 |
| 25.... | 488 | 258 | 194 | 173 | 180 | 588 | 793 | 1590 | 736 | 282 | 212 | 364 |
| 26.... | 477 | 274 | 176 | 180 | 183 | 600 | 801 | 1420 | 728 | 274 | 201 | 393 |
| 27.... | 462 | 254 | 163 | 183 | 176 | 571 | 941 | 1600 | 695 | 262 | 212 | 427 |
| 28.... | 452 | 246 | 190 | 201 | 169 | 510 | 1280 | 1850 | 682 | 294 | 250 | 407 |
| 29.... | 432 | 239 | 190 | 194 | .... | 472 | 1640 | 2060 | 682 | 402 | 315 | 398 |
| 30.... | 422 | 246 | 194 | 194 | .... | 422 | 1520 | 2200 | 663 | 432 | 350 | 378 |
| 31.... | 422 | .... | 198 | 194 | .... | 407 | .... | 1970 | .... | 407 | 355 | .... |
| Total | 16709 | 9603 | 6907 | 6202 | 4938 | 10520 | 23165 | 57760 | 39569 | 13541 | 8561 | 17311 |
| Mean. | 539 | 320 | 223 | 194 | 176 | 339 | 772 | 1863 | 1319 | 437 | 276 | 577 |
| Max.. | 816 | 422 | 266 | 220 | 205 | 600 | 1640 | 2460 | 2340 | 638 | 398 | 1380 |
| Min... | 311 | 239 | 163 | 173 | 160 | 180 | 462 | 1310 | 663 | 262 | 201 | 250 |
| Acre-ft. | 33140 | 19050 | 13700 | 11900 | 9790 | 20870 | 45950 | 114600 | 78480 | 26860 | 16980 | 34340 |

Total run-off for water year 1938-39=425,660 acre-feet.

Discharge of Animas River at Durango, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|---------|-------|-------|-------|------|------|-------|-------|--------|-------|-------|-------|-------|
| 1.... | 364 | 231 | 194 | 194 | 160 | 170 | 350 | 676 | 2390 | 588 | 239 | 246 |
| 2.... | 346 | 231 | 190 | 169 | 166 | 175 | 360 | 721 | 2320 | 521 | 227 | 227 |
| 3.... | 328 | 231 | 194 | 176 | 163 | 180 | 332 | 941 | 2090 | 482 | 220 | 227 |
| 4.... | 319 | 227 | 194 | 176 | 166 | 180 | 319 | 1430 | 1780 | 452 | 208 | 250 |
| 5.... | 307 | 227 | 187 | 176 | 153 | 180 | 319 | 1830 | 1640 | 427 | 194 | 242 |
| 6.... | 294 | 227 | 187 | 166 | 146 | 180 | 332 | 1660 | 1440 | 412 | 198 | 227 |
| 7.... | 282 | 223 | 187 | 140 | 166 | 190 | 332 | 2030 | 1360 | 398 | 212 | 220 |
| 8.... | 286 | 227 | 187 | 160 | 163 | 187 | 341 | 1900 | 1300 | 373 | 205 | 205 |
| 9.... | 303 | 231 | 183 | 169 | 150 | 194 | 355 | 2130 | 1200 | 350 | 201 | 194 |
| 10.... | 290 | 239 | 183 | 176 | 150 | 194 | 360 | 2460 | 1060 | 328 | 190 | 201 |
| 11.... | 278 | 223 | 183 | 163 | 156 | 190 | 360 | 2630 | 1060 | 315 | 190 | 194 |
| 12.... | 270 | 223 | 183 | 163 | 163 | 183 | 360 | 2770 | 1100 | 298 | 176 | 190 |
| 13.... | 266 | 223 | 183 | 163 | 143 | 180 | 407 | 2650 | 1170 | 298 | 169 | 194 |
| 14.... | 258 | 227 | 169 | 128 | 153 | 183 | 521 | 2790 | 1250 | 328 | 166 | 198 |
| 15.... | 250 | 220 | 169 | 134 | 166 | 187 | 656 | 2850 | 1260 | 307 | 156 | 194 |
| 16.... | 250 | 212 | 169 | 140 | 146 | 187 | 644 | 2800 | 1080 | 294 | 160 | 187 |
| 17.... | 239 | 208 | 176 | 153 | 143 | 194 | 543 | 2540 | 1040 | 303 | 160 | 194 |
| 18.... | 235 | 208 | 173 | 156 | 146 | 201 | 510 | 2070 | 1020 | 364 | 150 | 412 |
| 19.... | 231 | 201 | 169 | 146 | 150 | 208 | 613 | 1630 | 923 | 341 | 152 | 1130 |
| 20.... | 223 | 198 | 156 | 140 | 166 | 223 | 896 | 1480 | 896 | 298 | 180 | 941 |
| 21.... | 220 | 205 | 156 | 153 | 160 | 239 | 1270 | 1340 | 823 | 303 | 194 | 764 |
| 22.... | 208 | 205 | 153 | 160 | 145 | 262 | 1270 | 1250 | 823 | 278 | 194 | 808 |
| 23.... | 198 | 198 | 163 | 150 | 160 | 298 | 1420 | 1280 | 779 | 282 | 216 | 793 |
| 24.... | 198 | 201 | 153 | 169 | 160 | 341 | 1380 | 1650 | 757 | 274 | 242 | 682 |
| 25.... | 208 | 205 | 160 | 163 | 165 | 393 | 1260 | 1940 | 708 | 266 | 298 | 594 |
| 26.... | 246 | 208 | 143 | 160 | 165 | 437 | 1150 | 1970 | 650 | 258 | 350 | 549 |
| 27.... | 250 | 208 | 122 | 160 | 170 | 427 | 1270 | 2120 | 594 | 266 | 355 | 526 |
| 28.... | 239 | 205 | 125 | 156 | 170 | 398 | 1020 | 2310 | 560 | 278 | 328 | 499 |
| 29.... | 231 | 201 | 134 | 150 | 170 | 355 | 853 | 2140 | 526 | 294 | 303 | 588 |
| 30.... | 220 | 198 | 166 | 150 | .... | 332 | 750 | 2150 | 594 | 266 | 274 | 845 |
| 31.... | 220 | .... | 194 | 156 | .... | 337 | .... | 2280 | .... | 254 | 250 | .... |
| Total | 8057 | 6471 | 5285 | 4915 | 4580 | 7585 | 20553 | 60218 | 34193 | 10496 | 6758 | 12721 |
| Mean. | 260 | 216 | 170 | 159 | 158 | 245 | 685 | 1943 | 1140 | 339 | 218 | 424 |
| Max.. | 364 | 239 | 194 | 194 | 170 | 437 | 1420 | 2850 | 2390 | 588 | 355 | 1130 |
| Min... | 198 | 198 | 122 | 128 | 143 | 170 | 319 | 676 | 526 | 254 | 150 | 187 |
| Ac.-ft. | 15980 | 12840 | 10480 | 9750 | 9080 | 15040 | 40770 | 119400 | 67820 | 20820 | 13400 | 25230 |

Total run-off for water year 1939-40=360,610 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Mineral Creek Near Silverton, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|--------|------|------|------|------|-------|-------|------|------|-------|
| 1.... | 34 | 42 | 22 | .... | .... | 16 | 33 | 187 | 296 | 118 | 65 | 55 |
| 2.... | 37 | 39 | 21 | .... | .... | 16 | 32 | 207 | 286 | 118 | 56 | 47 |
| 3.... | 39 | 39 | 21 | .... | .... | 16 | 35 | 183 | 355 | 124 | 53 | 41 |
| 4.... | 37 | 38 | 21 | .... | .... | 16 | 40 | 219 | 415 | 124 | 51 | 38 |
| 5.... | 41 | 39 | 21 | .... | .... | 16 | 45 | 273 | 410 | 127 | 50 | 58 |
| 6.... | 59 | 29 | 21 | .... | .... | 16 | 45 | 251 | 345 | 127 | 79 | 161 |
| 7.... | 64 | 28 | 21 | .... | .... | 16 | 43 | 191 | 305 | 118 | 91 | 133 |
| 8.... | 72 | 30 | .... | .... | .... | 16 | 49 | 195 | 310 | 115 | 68 | 215 |
| 9.... | 68 | 30 | .... | .... | .... | 16 | 56 | 260 | 325 | 112 | 58 | 146 |
| 10.... | 67 | 30 | .... | .... | .... | 16 | 56 | 315 | 350 | 109 | 53 | 183 |
| 11.... | 68 | 29 | .... | .... | .... | 16 | 52 | 310 | 350 | 104 | 47 | 268 |
| 12.... | 72 | 29 | .... | .... | .... | 16 | 52 | 264 | 350 | 101 | 44 | 291 |
| 13.... | 76 | 27 | .... | .... | .... | 16 | 56 | 215 | 375 | 93 | 42 | 243 |
| 14.... | 81 | 28 | .... | .... | .... | 16 | 56 | 187 | 360 | 88 | 39 | 175 |
| 15.... | 96 | 29 | .... | .... | .... | 16 | 54 | 199 | 315 | 91 | 37 | 130 |
| 16.... | 106 | 28 | .... | .... | .... | 16 | 50 | 195 | 278 | 86 | 34 | 104 |
| 17.... | 96 | 26 | .... | .... | .... | 16 | 50 | 168 | 239 | 79 | 32 | 88 |
| 18.... | 83 | 26 | .... | .... | .... | 16 | 52 | 191 | 183 | 70 | 31 | 79 |
| 19.... | 68 | 26 | .... | .... | .... | 17 | 60 | 282 | 150 | 65 | 30 | 72 |
| 20.... | 74 | 26 | .... | .... | .... | 18 | 70 | 340 | 130 | 61 | 30 | 65 |
| 21.... | 70 | 25 | .... | .... | .... | 20 | 80 | 375 | 121 | 58 | 31 | 59 |
| 22.... | 63 | 23 | .... | .... | .... | 23 | 86 | 395 | 153 | 55 | 31 | 56 |
| 23.... | 61 | 22 | .... | .... | .... | 29 | 104 | 345 | 168 | 53 | 30 | 51 |
| 24.... | 58 | 22 | .... | .... | .... | 29 | 86 | 268 | 175 | 50 | 34 | 50 |
| 25.... | 58 | 22 | .... | .... | .... | 30 | 83 | 223 | 171 | 48 | 32 | 55 |
| 26.... | 55 | 22 | .... | .... | .... | 29 | 104 | 227 | 161 | 47 | 31 | 61 |
| 27.... | 55 | 22 | .... | .... | .... | 28 | 146 | 286 | 150 | 59 | 32 | 61 |
| 28.... | 30 | 21 | .... | .... | .... | 26 | 203 | 345 | 146 | 79 | 39 | 59 |
| 29.... | 47 | 21 | .... | .... | .... | 27 | 203 | 385 | 146 | 104 | 56 | 58 |
| 30.... | 45 | 22 | Dec. 1 | .... | .... | 29 | 168 | 385 | 130 | 96 | 74 | 55 |
| 31.... | 42 | .... | to 7 | .... | .... | 28 | .... | 330 | .... | 79 | 61 | .... |
| Total | 1942 | 840 | 148 | .... | .... | 621 | 2249 | 8196 | 7648 | 2758 | 1441 | 3157 |
| Mean... | 62.6 | 28.0 | 21.1 | .... | .... | 20.0 | 75.0 | 264 | 255 | 89.0 | 46.5 | 105 |
| Max... | 106 | 42 | 22 | .... | .... | 30 | 203 | 385 | 415 | 127 | 91 | 291 |
| Min... | 34 | 21 | 21 | .... | .... | 16 | 32 | 168 | 121 | 47 | 30 | 38 |
| Acre-ft. | 3850 | 1670 | 294 | .... | .... | 1230 | 4460 | 16260 | 15170 | 5470 | 2860 | 6260 |

Total run-off for period=57,524 acre-feet.

Discharge of Mineral Creek Near Silverton, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|-------|------|------|------|-------|-------|------|------|-------|
| 1.... | 51 | 26 | 15 | 14 | 16 | 14 | 27 | 63 | 500 | 118 | 42 | 31 |
| 2.... | 47 | 25 | 15 | 14 | 16 | 14 | 25 | 83 | 450 | 106 | 41 | 34 |
| 3.... | 44 | 25 | 14 | 14 | 15 | 14 | 22 | 130 | 380 | 101 | 38 | 35 |
| 4.... | 42 | 24 | 16 | 14 | 15 | 14 | 20 | 195 | 350 | 93 | 35 | 32 |
| 5.... | 39 | 23 | 16 | 14 | 15 | 12 | 22 | 211 | 320 | 86 | 34 | 31 |
| 6.... | 38 | 24 | 15 | 14 | 14 | 14 | 21 | 223 | 291 | 81 | 35 | 31 |
| 7.... | 37 | 21 | 16 | 13 | 14 | 12 | 23 | 251 | 268 | 76 | 34 | 30 |
| 8.... | 39 | 21 | 15 | 14 | 13 | 13 | 23 | 264 | 251 | 72 | 31 | 29 |
| 9.... | 37 | 21 | 16 | 14 | 13 | 14 | 23 | 320 | 231 | 68 | 30 | 28 |
| 10.... | 32 | 19 | 16 | 14 | 14 | 14 | 21 | 390 | 227 | 63 | 29 | 28 |
| 11.... | 34 | 20 | 16 | 14 | 15 | 13 | 19 | 395 | 251 | 59 | 28 | 26 |
| 12.... | 32 | 21 | 14 | 14 | 14 | 12 | 21 | 410 | 273 | 58 | 27 | 28 |
| 13.... | 31 | 21 | 13 | 9.2 | 13 | 12 | 31 | 400 | 300 | 63 | 27 | 28 |
| 14.... | 31 | 18 | 13 | 10 | 15 | 12 | 48 | 400 | 325 | 59 | 26 | 27 |
| 15.... | 30 | 18 | 13 | 11 | 16 | 13 | 55 | 415 | 278 | 56 | 26 | 28 |
| 16.... | 29 | 18 | 14 | 14 | 16 | 13 | 42 | 385 | 243 | 59 | 27 | 26 |
| 17.... | 28 | 17 | 14 | 18 | 15 | 14 | 37 | 335 | 251 | 68 | 26 | 37 |
| 18.... | 27 | 16 | 14 | 17 | 14 | 14 | 42 | 247 | 239 | 68 | 26 | 175 |
| 19.... | 27 | 15 | 11 | 16 | 16 | 14 | 74 | 211 | 223 | 56 | 27 | 191 |
| 20.... | 26 | 17 | 12 | 17 | 14 | 16 | 124 | 207 | 211 | 56 | 30 | 157 |
| 21.... | 25 | 17 | 12 | 16 | 14 | 18 | 150 | 183 | 203 | 55 | 28 | 139 |
| 22.... | 25 | 16 | 12 | 16 | 16 | 21 | 171 | 171 | 191 | 56 | 29 | 161 |
| 23.... | 25 | 16 | 12 | 15 | 14 | 26 | 187 | 215 | 179 | 56 | 32 | 136 |
| 24.... | 25 | 17 | 13 | 16 | 14 | 31 | 168 | 264 | 171 | 56 | 45 | 112 |
| 25.... | 26 | 17 | 14 | 15 | 14 | 38 | 136 | 278 | 157 | 58 | 55 | 99 |
| 26.... | 26 | 18 | 13 | 14 | 12 | 39 | 136 | 300 | 139 | 58 | 56 | 93 |
| 27.... | 22 | 17 | 14 | 14 | 14 | 35 | 127 | 360 | 130 | 53 | 50 | 83 |
| 28.... | 21 | 17 | 14 | 14 | 14 | 30 | 93 | 365 | 124 | 61 | 44 | 93 |
| 29.... | 23 | 16 | 14 | 14 | 14 | 27 | 72 | 370 | 121 | 55 | 38 | 146 |
| 30.... | 24 | 15 | 14 | 15 | .... | 27 | 61 | 405 | 139 | 51 | 34 | 161 |
| 31.... | 25 | .... | 14 | 15 | .... | 29 | .... | 460 | .... | 47 | 32 | .... |
| Total | 968 | 576 | 434 | 443.2 | 419 | 589 | 2021 | 8906 | 7416 | 2072 | 1062 | 2255 |
| Mean... | 31.2 | 19.2 | 14.0 | 14.3 | 14.4 | 19.0 | 67.4 | 287 | 247 | 66.8 | 34.3 | 75.2 |
| Max... | 51 | 26 | 16 | 18 | 16 | 39 | 187 | 460 | 500 | 118 | 56 | 191 |
| Min... | 21 | 15 | 11 | 9.2 | 12 | 12 | 19 | 63 | 121 | 47 | 26 | 26 |
| Acre-ft. | 1920 | 1140 | 861 | 879 | 831 | 1170 | 4010 | 17660 | 14710 | 4110 | 2110 | 4470 |

Total run-off for water year 1939-40=53,870 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cascade Creek Near Tacoma, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|------|------|------|------|------|-------|
| 1.... | 20 | 20 | 5.1 | 3.3 | 4.2 | 4.2 | 14 | 112 | 164 | 36 | 36 | 36 |
| 2.... | 20 | 20 | 5.1 | 4.2 | 4.2 | 4.2 | 17 | 129 | 154 | 33 | 33 | 33 |
| 3.... | 20 | 18 | 5.1 | 4.2 | 4.2 | 4.2 | 18 | 115 | 173 | 33 | 31 | 31 |
| 4.... | 20 | 17 | 5.1 | 4.2 | 4.2 | 4.2 | 18 | 124 | 176 | 33 | 31 | 28 |
| 5.... | 20 | 17 | 5.1 | 4.2 | 4.2 | 4.2 | 18 | 179 | 175 | 31 | 31 | 31 |
| 6.... | 26 | 12 | 5.1 | 4.2 | 4.2 | 4.2 | 18 | 173 | 168 | 31 | 36 | 120 |
| 7.... | 36 | 12 | 4.2 | 4.2 | 4.2 | 4.2 | 22 | 124 | 137 | 26 | 53 | 103 |
| 8.... | 36 | 12 | 4.2 | 4.2 | 4.2 | 5.1 | 31 | 137 | 129 | 24 | 42 | 112 |
| 9.... | 36 | 10 | 4.2 | 4.2 | 4.2 | 5.1 | 36 | 168 | 112 | 24 | 36 | 99 |
| 10.... | 33 | 10 | 4.2 | 4.2 | 4.2 | 5.1 | 36 | 183 | 112 | 24 | 31 | 53 |
| 11.... | 33 | 10 | 4.2 | 4.2 | 4.2 | 5.1 | 31 | 192 | 112 | 22 | 31 | 112 |
| 12.... | 31 | 10 | 4.2 | 4.2 | 4.2 | 5.1 | 33 | 177 | 107 | 22 | 28 | 129 |
| 13.... | 31 | 9.3 | 4.2 | 4.2 | 4.2 | 5.1 | 36 | 145 | 115 | 22 | 26 | 115 |
| 14.... | 39 | 9.3 | 4.2 | 4.2 | 4.2 | 5.1 | 36 | 129 | 115 | 22 | 24 | 129 |
| 15.... | 47 | 9.3 | 4.2 | 4.2 | 4.2 | 5.1 | 31 | 123 | 90 | 22 | 24 | 76 |
| 16.... | 53 | 9.3 | 4.2 | 4.2 | 4.2 | 5.1 | 31 | 133 | 83 | 22 | 22 | 62 |
| 17.... | 53 | 9.3 | 4.2 | 4.2 | 4.2 | 5.1 | 31 | 115 | 80 | 22 | 22 | 76 |
| 18.... | 53 | 8.2 | 3.3 | 4.2 | 4.2 | 6.1 | 36 | 112 | 62 | 22 | 22 | 60 |
| 19.... | 36 | 8.2 | 3.3 | 4.2 | 4.2 | 8.2 | 42 | 163 | 53 | 20 | 20 | 53 |
| 20.... | 39 | 8.2 | 3.3 | 4.2 | 4.2 | 9.3 | 42 | 187 | 44 | 18 | 20 | 50 |
| 21.... | 36 | 7.1 | 3.3 | 4.2 | 4.2 | 12 | 53 | 204 | 39 | 20 | 20 | 47 |
| 22.... | 33 | 7.1 | 3.3 | 4.2 | 4.2 | 14 | 66 | 223 | 42 | 20 | 20 | 44 |
| 23.... | 31 | 7.1 | 3.3 | 4.2 | 4.2 | 14 | 72 | 198 | 44 | 20 | 20 | 39 |
| 24.... | 31 | 6.1 | 3.3 | 4.2 | 4.2 | 12 | 47 | 173 | 42 | 20 | 18 | 36 |
| 25.... | 31 | 6.1 | 3.3 | 4.2 | 4.2 | 14 | 42 | 131 | 44 | 18 | 18 | 39 |
| 26.... | 31 | 6.1 | 3.3 | 4.2 | 4.2 | 13 | 42 | 145 | 42 | 18 | 18 | 39 |
| 27.... | 28 | 6.1 | 3.3 | 4.2 | 4.2 | 12 | 60 | 173 | 39 | 22 | 22 | 69 |
| 28.... | 26 | 6.1 | 3.3 | 4.3 | 4.2 | 9.3 | 99 | 173 | 39 | 33 | 26 | 42 |
| 29.... | 28 | 6.1 | 3.3 | 4.2 | ... | 10 | 112 | 188 | 36 | 72 | 36 | 44 |
| 30.... | 26 | 6.1 | 3.3 | 4.2 | ... | 12 | 95 | 192 | 39 | 50 | 47 | 42 |
| 31.... | 24 | ... | 3.3 | 4.2 | ... | 12 | ... | 173 | ... | 47 | 47 | ... |
| Total | 1007 | 303.1 | 123.0 | 129.3 | 117.6 | 238.3 | 1265 | 4905 | 2767 | 849 | 891 | 1949 |
| Mean. | 32.5 | 10.1 | 3.97 | 4.17 | 4.20 | 7.69 | 42.2 | 158 | 92.2 | 27.4 | 28.7 | 65.0 |
| Max. | 53 | 20 | 5.1 | 4.2 | 4.2 | 14 | 112 | 223 | 176 | 72 | 53 | 129 |
| Min. | 20 | 6.1 | 3.3 | 3.3 | 4.2 | 4.2 | 14 | 112 | 36 | 18 | 18 | 28 |
| Acre-ft. | 2000 | 601 | 244 | 256 | 233 | 473 | 2510 | 9730 | 5490 | 1680 | 1770 | 3870 |

Total run-off for water year 1938-39=28,860 acre-feet.

Discharge of Cascade Creek Near Tacoma, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|------|-------|--------|------|------|------|------|-------|
| 1.... | 34 | 10 | 7.1 | 3.3 | 3.3 | 3.3 | 12 | 28 | 186 | 36 | 18 | 14 |
| 2.... | 32 | 12 | 6.1 | 3.3 | 3.3 | 3.3 | 9.3 | 39 | 182 | 31 | 17 | 12 |
| 3.... | 32 | 12 | 6.1 | 3.3 | 3.3 | 3.3 | 8.8 | 60 | 173 | 31 | 17 | 15 |
| 4.... | 27 | 12 | 6.1 | 3.3 | 3.3 | 3.3 | 10 | 103 | 164 | 26 | 14 | 14 |
| 5.... | 24 | 12 | 6.1 | 3.3 | 3.3 | 3.3 | 10 | 129 | 154 | 26 | 12 | 12 |
| 6.... | 22 | 12 | 6.1 | 3.3 | 3.3 | 3.3 | 9.3 | 145 | 137 | 26 | 12 | 12 |
| 7.... | 20 | 12 | 6.1 | 3.3 | 3.3 | 3.3 | 9.3 | 141 | 129 | 24 | 15 | 11 |
| 8.... | 20 | 12 | 6.1 | 3.3 | 3.3 | 3.3 | 10 | 141 | 112 | 24 | 12 | 11 |
| 9.... | 18 | 10 | 6.1 | 3.3 | 3.3 | 3.3 | 10 | 172 | 103 | 22 | 12 | 11 |
| 10.... | 20 | 10 | 6.1 | 3.3 | 3.3 | 3.3 | 12 | 193 | 95 | 22 | 11 | 11 |
| 11.... | 18 | 10 | 6.1 | 3.3 | 3.3 | 3.3 | 12 | 188 | 95 | 22 | 11 | 11 |
| 12.... | 18 | 12 | 5.1 | 3.3 | 3.3 | 3.3 | 17 | 207 | 95 | 22 | 11 | 11 |
| 13.... | 18 | 10 | 5.1 | 3.3 | 3.3 | 3.3 | 27 | 235 | 103 | 22 | 11 | 14 |
| 14.... | 17 | 12 | 5.1 | 3.3 | 3.3 | 3.3 | 33 | 221 | 107 | 20 | 11 | 12 |
| 15.... | 17 | 12 | 5.1 | 3.3 | 3.3 | 3.3 | 36 | 226 | 103 | 18 | 11 | 12 |
| 16.... | 16 | 9.3 | 5.1 | 3.3 | 3.3 | 4.2 | 22 | 207 | 87 | 20 | 11 | 12 |
| 17.... | 16 | 9.3 | 5.1 | 3.3 | 3.3 | 4.2 | 18 | 197 | 76 | 22 | 10 | 14 |
| 18.... | 14 | 9.3 | 5.1 | 3.3 | 3.3 | 4.2 | 24 | 164 | 69 | 22 | 10 | 120 |
| 19.... | 14 | 9.3 | 5.1 | 3.3 | 3.3 | 6.1 | 42 | 137 | 62 | 24 | 11 | 103 |
| 20.... | 14 | 8.2 | 5.1 | 3.3 | 2.5 | 7.1 | 60 | 137 | 60 | 24 | 12 | 80 |
| 21.... | 13 | 8.2 | 5.1 | 3.3 | 3.3 | 8.2 | 75 | 103 | 66 | 22 | 11 | 60 |
| 22.... | 13 | 8.2 | 5.1 | 3.3 | 3.3 | 10 | 90 | 103 | 60 | 20 | 11 | 80 |
| 23.... | 12 | 8.2 | 5.1 | 3.3 | 3.3 | 12 | 107 | 150 | 53 | 18 | 14 | 69 |
| 24.... | 12 | 8.2 | 4.2 | 3.3 | 3.3 | 17 | 90 | 187 | 53 | 18 | 20 | 60 |
| 25.... | 12 | 8.2 | 4.2 | 3.3 | 3.3 | 24 | 66 | 175 | 50 | 22 | 31 | 47 |
| 26.... | 10 | 7.1 | 3.3 | 3.3 | 3.3 | 24 | 56 | 187 | 44 | 24 | 33 | 44 |
| 27.... | 10 | 7.1 | 3.3 | 3.3 | 3.3 | 23 | 53 | 205 | 42 | 22 | 28 | 42 |
| 28.... | 10 | 7.1 | 3.3 | 3.3 | 3.3 | 17 | 44 | 182 | 39 | 26 | 22 | 44 |
| 29.... | 10 | 7.1 | 3.3 | 3.3 | 3.3 | 17 | 39 | 182 | 31 | 26 | 18 | 112 |
| 30.... | 10 | 7.1 | 3.3 | 3.3 | ... | 14 | 31 | 187 | 42 | 22 | 18 | 112 |
| 31.... | 10 | ... | 3.3 | 3.3 | ... | 12 | ... | 187 | ... | 20 | 15 | ... |
| Total | 533 | 291.9 | 157.5 | 102.3 | 94.9 | 253.5 | 1042.6 | 4918 | 2772 | 724 | 471 | 1182 |
| Mean. | 17.2 | 9.73 | 5.08 | 3.30 | 3.27 | 8.18 | 34.8 | 159 | 92.4 | 23.4 | 15.2 | 39.4 |
| Max. | 34 | 12 | 7.1 | 3.3 | 3.3 | 24 | 107 | 235 | 186 | 36 | 33 | 120 |
| Min. | 10 | 7.1 | 3.3 | 3.3 | 2.5 | 3.3 | 8.8 | 28 | 31 | 18 | 10 | 11 |
| Acre-ft. | 1060 | 579 | 312 | 203 | 188 | 503 | 2070 | 9750 | 5500 | 1440 | 934 | 2340 |

Total run-off for water year 1939-40=24,880 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Lightner Creek Near Durango, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|------|-------|-------|-------|-------|------|------|-------|------|------|-------|
| 1.... | 5.3 | 3.4 | ..... | ..... | ..... | 1.0 | 36 | 40 | 9.0 | 2.0 | 1.3 | 1.7 |
| 2.... | 4.9 | 3.4 | ..... | ..... | ..... | 1.0 | 43 | 41 | 8.0 | 1.7 | 1.3 | 1.7 |
| 3.... | 4.5 | 3.4 | ..... | ..... | ..... | 1.0 | 70 | 37 | 8.0 | 1.6 | 1.3 | 1.5 |
| 4.... | 4.1 | 3.4 | ..... | ..... | ..... | 1.0 | 55 | 36 | 8.5 | 1.6 | 1.6 | 1.4 |
| 5.... | 4.1 | 3.4 | ..... | ..... | ..... | 1.0 | 46 | 40 | 8.5 | 1.8 | 1.4 | 1.3 |
| 6.... | 4.1 | 3.0 | ..... | ..... | ..... | 1.5 | 50 | 41 | 8.5 | 1.6 | 1.4 | 1.9 |
| 7.... | 5.7 | 4.9 | ..... | ..... | ..... | 1.5 | 40 | 37 | 8.5 | 1.6 | 1.3 | 1.5 |
| 8.... | 10 | 3.0 | ..... | ..... | ..... | 1.5 | 45 | 35 | 6.8 | 1.3 | 1.3 | 4.4 |
| 9.... | 3.7 | 3.0 | ..... | ..... | ..... | 1.6 | 55 | 35 | 4.9 | 1.3 | 1.3 | 1.5 |
| 10.... | 3.5 | 3.2 | ..... | ..... | ..... | 1.8 | 52 | 36 | 3.5 | 1.2 | 1.3 | 3.1 |
| 11.... | 3.2 | 3.5 | ..... | ..... | ..... | 2.0 | 40 | 34 | 3.2 | 1.2 | 1.2 | 3.0 |
| 12.... | 3.2 | 3.4 | ..... | ..... | ..... | 2.0 | 40 | 28 | 3.7 | 1.2 | 1.2 | 1.1 |
| 13.... | 3.2 | 3.0 | ..... | ..... | ..... | 2.0 | 43 | 21 | 3.9 | 1.2 | 1.2 | 3.7 |
| 14.... | 3.2 | 2.8 | ..... | ..... | ..... | 2.1 | 40 | 19 | 3.7 | 1.2 | 1.2 | 4.1 |
| 15.... | 3.2 | 2.6 | ..... | ..... | ..... | 2.6 | 35 | 19 | 3.2 | 1.2 | 1.3 | 3.2 |
| 16.... | 3.2 | 2.6 | ..... | ..... | ..... | 3.9 | 31 | 19 | 2.2 | 1.2 | 1.3 | 2.6 |
| 17.... | 3.2 | 2.6 | ..... | ..... | ..... | 5.7 | 28 | 19 | 2.1 | 1.2 | 1.3 | 2.6 |
| 18.... | 3.2 | 3.9 | ..... | ..... | ..... | 8.5 | 28 | 16 | 2.2 | 1.2 | 1.3 | 1.9 |
| 19.... | 3.2 | 3.5 | ..... | ..... | ..... | 14 | 35 | 17 | 2.2 | 1.2 | 1.2 | 1.9 |
| 20.... | 3.2 | 3.2 | ..... | ..... | ..... | 20 | 39 | 19 | 2.6 | 1.2 | 1.2 | 1.9 |
| 21.... | 3.2 | 2.8 | ..... | ..... | ..... | 23 | 47 | 19 | 2.6 | 1.2 | 2.0 | 1.9 |
| 22.... | 3.5 | 2.8 | ..... | ..... | ..... | 64 | 54 | 18 | 2.2 | 1.1 | 1.9 | 1.9 |
| 23.... | 3.5 | 2.8 | ..... | ..... | ..... | 72 | 41 | 17 | 3.2 | 1.1 | 1.9 | 1.9 |
| 24.... | 3.5 | 2.2 | ..... | ..... | ..... | 46 | 41 | 16 | 2.8 | 1.1 | 1.9 | 1.9 |
| 25.... | 3.5 | 2.0 | ..... | ..... | ..... | 39 | 37 | 15 | 2.1 | 1.1 | 1.9 | 1.9 |
| 26.... | 3.5 | 2.0 | ..... | ..... | ..... | 37 | 37 | 14 | 2.1 | 1.4 | 1.8 | 2.2 |
| 27.... | 3.5 | 2.0 | ..... | ..... | ..... | 37 | 37 | 12 | 2.1 | 1.3 | 1.9 | 2.6 |
| 28.... | 3.5 | 2.0 | ..... | ..... | ..... | 32 | 40 | 12 | 2.2 | 1.3 | 3.5 | 2.6 |
| 29.... | 3.5 | 2.0 | ..... | ..... | ..... | 41 | 43 | 10 | 2.2 | 1.5 | 2.2 | 2.6 |
| 30.... | 3.5 | 2.0 | ..... | ..... | ..... | 36 | 40 | 10 | 2.2 | 1.5 | 1.9 | 2.6 |
| 31.... | 3.5 | 2.0 | ..... | ..... | ..... | 33 | 33 | 10 | 1.3 | 1.3 | 1.8 | ..... |
| Total | 120.1 | 87.8 | 46.5 | 31.0 | 28.0 | 535.7 | 1268 | 742 | 126.9 | 41.6 | 48.6 | 172.5 |
| Mean. | 3.87 | 2.93 | 1.50 | 1.00 | 1.00 | 17.3 | 42.3 | 23.9 | 4.23 | 1.34 | 1.57 | 5.75 |
| Max.. | 10 | 4.9 | ..... | ..... | ..... | 7.2 | 70 | 41 | 9 | 2.0 | 3.5 | 4.4 |
| Min.. | 3.2 | 2.0 | ..... | ..... | ..... | 1.0 | 28 | 10 | 2.1 | 1.1 | 1.2 | 1.3 |
| Acre-ft. | 238 | 174 | 92 | 61 | 56 | 1060 | 2520 | 1470 | 252 | 83 | 96 | 342 |

Total run-off for water year 1938-39=6,440 acre-feet.

Discharge of Lightner Creek Near Durango, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| 1.... | 1.7 | 4.3 | 2.0 | ..... | ..... | 2.0 | 23 | 27 | 11 | 2.2 | 4.8 | 3.7 |
| 2.... | 1.8 | 4.3 | 2.2 | 1.0 | ..... | 2.0 | 21 | 24 | 11 | 1.9 | 4.8 | 3.7 |
| 3.... | 2.1 | 4.1 | 2.0 | ..... | ..... | 2.5 | 22 | 31 | 9.8 | 1.9 | 4.5 | 3.7 |
| 4.... | 2.2 | 3.9 | 2.0 | ..... | ..... | 2.5 | 24 | 41 | 9.4 | 2.3 | 4.5 | 3.9 |
| 5.... | 2.1 | 4.3 | 2.1 | ..... | ..... | 3.0 | 24 | 42 | 10 | 4.8 | 4.5 | 3.3 |
| 6.... | 2.5 | 4.1 | 2.2 | ..... | ..... | 3.3 | 23 | 34 | 8.6 | 6.0 | 4.5 | 3.1 |
| 7.... | 3.3 | 3.9 | 2.2 | ..... | ..... | 3.3 | 21 | 33 | 7.0 | 5.0 | 4.3 | 3.1 |
| 8.... | 3.3 | 4.1 | 2.2 | ..... | ..... | 3.7 | 21 | 32 | 6.5 | 5.0 | 4.8 | 2.7 |
| 9.... | 3.3 | 4.8 | 2.4 | ..... | ..... | 6.8 | 23 | 28 | 6.0 | 3.5 | 4.1 | 2.4 |
| 10.... | 3.3 | 3.9 | 2.2 | ..... | ..... | 6.2 | 28 | 28 | 5.8 | 2.7 | 1.2 | 2.4 |
| 11.... | 3.9 | 3.5 | 2.0 | ..... | ..... | 5.0 | 28 | 28 | 5.2 | 2.5 | 9.4 | 2.7 |
| 12.... | 3.1 | 3.5 | 2.1 | ..... | ..... | 4.1 | 31 | 29 | 5.0 | 2.9 | 7.0 | 2.4 |
| 13.... | 3.3 | 3.5 | 2.2 | ..... | ..... | 4.5 | 38 | 30 | 4.5 | 2.9 | 2.7 | 2.4 |
| 14.... | 3.5 | 3.3 | 2.2 | ..... | ..... | 3.9 | 52 | 33 | 4.5 | 2.9 | 1.7 | 2.7 |
| 15.... | 3.5 | 3.2 | 2.3 | ..... | ..... | 4.1 | 60 | 30 | 4.1 | 2.7 | 1.5 | 2.4 |
| 16.... | 3.7 | 3.0 | 2.2 | ..... | ..... | 5.8 | 46 | 32 | 4.3 | 2.2 | 2.4 | 2.5 |
| 17.... | 4.1 | 3.0 | 2.0 | ..... | ..... | 6.8 | 34 | 33 | 4.5 | 2.0 | 5.0 | 4.5 |
| 18.... | 4.3 | 2.7 | 1.9 | ..... | ..... | 5.8 | 31 | 31 | 3.9 | 2.2 | 4.8 | 7.0 |
| 19.... | 3.9 | 2.5 | 2.0 | ..... | ..... | 6.0 | 37 | 26 | 3.9 | 2.2 | 5.0 | 3.3 |
| 20.... | 3.9 | 2.3 | 2.0 | ..... | ..... | 6.0 | 51 | 21 | 7.0 | 2.2 | 9.0 | 2.5 |
| 21.... | 4.5 | 2.3 | 2.0 | ..... | ..... | 7.4 | 60 | 18 | 4.8 | 2.3 | 14 | 2.3 |
| 22.... | 4.5 | 2.5 | 2.2 | ..... | ..... | 11 | 55 | 19 | 3.9 | 6.5 | 7.0 | 2.7 |
| 23.... | 3.9 | 2.3 | 2.0 | ..... | ..... | 20 | 50 | 20 | 3.5 | 5.8 | 26 | 2.7 |
| 24.... | 3.9 | 2.3 | 1.9 | ..... | ..... | 24 | 44 | 20 | 3.3 | 8.2 | 44 | 2.3 |
| 25.... | 4.8 | 2.5 | 1.8 | ..... | ..... | 28 | 37 | 18 | 3.1 | 9.4 | 18 | 2.0 |
| 26.... | 6.8 | 2.4 | 1.7 | ..... | ..... | 28 | 33 | 16 | 3.3 | 9.0 | 10 | 1.7 |
| 27.... | 5.5 | 2.1 | 1.6 | ..... | ..... | 35 | 32 | 14 | 3.5 | 6.8 | 7 | 1.5 |
| 28.... | 5.2 | 2.1 | 1.5 | ..... | ..... | 33 | 30 | 12 | 3.3 | 6.2 | 7 | 3.1 |
| 29.... | 4.3 | 2.2 | 1.5 | ..... | ..... | 27 | 35 | 12 | 2.5 | 4.1 | 5 | 1.8 |
| 30.... | 4.1 | 2.0 | 1.4 | ..... | ..... | 23 | 29 | 11 | 2.2 | 4.5 | 4.3 | 16.8 |
| 31.... | 4.1 | ..... | 1.4 | ..... | ..... | 23 | ..... | 11 | ..... | 4.3 | 4.1 | ..... |
| Total | 114.4 | 94.9 | 61.4 | 31.0 | 43.5 | 346.7 | 1043 | 784 | 165.4 | 127.1 | 247.7 | 252.5 |
| Mean. | 3.69 | 3.16 | 1.98 | 1.0 | 1.5 | 11.2 | 34.8 | 25.3 | 5.51 | 4.10 | 7.99 | 8.42 |
| Max.. | 6.8 | 4.8 | 2.4 | ..... | ..... | 35 | 60 | 42 | 11 | 9.4 | 44 | 16.8 |
| Min.. | 1.7 | 2.0 | 1.4 | ..... | ..... | 2.0 | 21 | 11 | 2.2 | 1.9 | 1.5 | 1.5 |
| Acre-ft. | 227 | 188 | 122 | 61 | 86 | 688 | 2070 | 1560 | 328 | 252 | 491 | 501 |

Total run-off for water year 1939-40=6,570 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Florida River Near Durango, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1..... | 34 | 47 | 26 | 12 | 4.2 | 5.6 | 64 | 189 | 214 | 25 | 22 | 35 |
| 2..... | 32 | 46 | 23 | 12 | 5.8 | 5.8 | 73 | 235 | 189 | 22 | 16 | 30 |
| 3..... | 46 | 41 | 20 | 13 | 6.4 | 5.6 | 86 | 223 | 199 | 26 | 13 | 25 |
| 4..... | 48 | 41 | 21 | 11 | 6.9 | 5.6 | 88 | 211 | 223 | 25 | 15 | 21 |
| 5..... | 47 | 43 | 20 | 11 | 6.9 | 5.2 | 86 | 303 | 211 | 22 | 15 | 22 |
| 6..... | 64 | 31 | 20 | 13 | 6.2 | 5.6 | 88 | 343 | 171 | 20 | 18 | 96 |
| 7..... | 84 | 38 | 20 | 13 | 6.0 | 5.6 | 79 | 253 | 154 | 18 | 29 | 90 |
| 8..... | 108 | 43 | 19 | 13 | 5.8 | 5.6 | 86 | 300 | 142 | 16 | 24 | 168 |
| 9..... | 96 | 37 | 19 | 12 | 5.4 | 5.8 | 98 | 374 | 130 | 15 | 19 | 156 |
| 10..... | 86 | 32 | 20 | 11 | 5.4 | 5.8 | 94 | 426 | 126 | 15 | 16 | 146 |
| 11..... | 84 | 29 | 22 | 10 | 5.8 | 5.7 | 84 | 418 | 121 | 15 | 12 | 223 |
| 12..... | 77 | 29 | 21 | 9 | 6.0 | 5.8 | 86 | 355 | 106 | 14 | 9.7 | 289 |
| 13..... | 79 | 27 | 18 | 9.4 | 6.0 | 6.1 | 88 | 307 | 98 | 11 | 9.7 | 214 |
| 14..... | 90 | 27 | 13 | 9.6 | 6.0 | 7.6 | 84 | 247 | 90 | 9.7 | 9.2 | 161 |
| 15..... | 110 | 32 | 14 | 10 | 5.6 | 1.0 | 77 | 220 | 79 | 10 | 7.0 | 137 |
| 16..... | 113 | 30 | 17 | 11 | 5.5 | 1.2 | 68 | 211 | 68 | 12 | 5.8 | 110 |
| 17..... | 110 | 30 | 10 | 11 | 6.0 | 1.6 | 65 | 174 | 64 | 11 | 5.5 | 100 |
| 18..... | 98 | 25 | 6.4 | 11 | 5.7 | 2.0 | 66 | 189 | 56 | 5.8 | 5.8 | 86 |
| 19..... | 90 | 28 | 11 | 10 | 5.7 | 2.2 | 75 | 314 | 49 | 6.6 | 6.6 | 73 |
| 20..... | 77 | 30 | 11 | 10 | 5.7 | 2.5 | 79 | 366 | 47 | 6.2 | 6.2 | 66 |
| 21..... | 72 | 28 | 10 | 11 | 5.6 | 4.0 | 102 | 366 | 45 | 11 | 6.6 | 58 |
| 22..... | 68 | 25 | 8.6 | 11 | 5.4 | 5.3 | 128 | 362 | 40 | 11 | 6.6 | 53 |
| 23..... | 62 | 20 | 7.0 | 10 | 5.5 | 7.7 | 144 | 328 | 37 | 5.1 | 7.0 | 52 |
| 24..... | 59 | 17 | 8.0 | 9.6 | 5.6 | 7.3 | 115 | 282 | 35 | 3.9 | 7.0 | 46 |
| 25..... | 59 | 18 | 8.2 | 9.2 | 5.7 | 7.0 | 100 | 214 | 34 | 3.9 | 5.8 | 42 |
| 26..... | 58 | 18 | 9.1 | 9.4 | 5.7 | 7.0 | 96 | 214 | 29 | 4.3 | 7.5 | 45 |
| 27..... | 53 | 19 | 10 | 10 | 5.6 | 6.8 | 104 | 244 | 28 | 6.2 | 1.7 | 60 |
| 28..... | 49 | 20 | 12 | 11 | 5.5 | 5.8 | 135 | 229 | 27 | 19 | 2.5 | 52 |
| 29..... | 48 | 21 | 11 | 10 | ..... | 5.6 | 181 | 250 | 25 | 3.6 | 6.5 | 46 |
| 30..... | 48 | 24 | 11 | 9.4 | ..... | 5.1 | 181 | 232 | 23 | 2.6 | 5.1 | 42 |
| 31..... | 45 | ..... | 12 | 6.6 | ..... | 5.3 | ..... | 217 | ..... | 2.3 | 4.2 | ..... |
| Total | 2194 | 896 | 458.3 | 329.2 | 161.6 | 855.4 | 2900 | 8596 | 2860 | 454.7 | 505.0 | 2744 |
| Mean. | 70.8 | 29.9 | 14.8 | 10.6 | 5.77 | 27.6 | 96.7 | 277 | 95.3 | 14.7 | 16.3 | 91.5 |
| Max... | 113 | 47 | 26 | 13 | 6.9 | 7.7 | 181 | 426 | 223 | 3.6 | 6.5 | 289 |
| Min... | 32 | 17 | 6.4 | 6.6 | 4.2 | 5.2 | 64 | 174 | 23 | 3.9 | 5.5 | 21 |
| Acre-ft. | 4350 | 1780 | 909 | 653 | 321 | 1700 | 5750 | 17050 | 5670 | 902 | 1000 | 5440 |

Total run-off for water year 1938-39=45,525 acre-feet.

Discharge of Florida River Near Durango, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|--------|
| 1..... | 40 | 22 | 6.5 | 5.5 | 5.6 | 7.0 | 50 | 94 | 208 | 53 | 18 | 21 |
| 2..... | 37 | 22 | 6.4 | 6.2 | 5.9 | 6.8 | 50 | 110 | 194 | 45 | 16 | 18 |
| 3..... | 36 | 21 | 6.6 | 6.4 | 5.8 | 6.6 | 47 | 176 | 171 | 40 | 14 | 20 |
| 4..... | 34 | 22 | 7.3 | 6.2 | 5.6 | 6.6 | 45 | 282 | 154 | 36 | 11 | 21 |
| 5..... | 31 | 22 | 7.6 | 5.4 | 5.4 | 6.6 | 45 | 343 | 133 | 35 | 9.7 | 19 |
| 6..... | 28 | 22 | 7.6 | 5.2 | 5.3 | 6.4 | 46 | 307 | 119 | 35 | 11 | 16 |
| 7..... | 27 | 21 | 7.5 | 5.0 | 5.6 | 6.2 | 47 | 359 | 106 | 33 | 15 | 15 |
| 8..... | 33 | 22 | 7.8 | 5.0 | 5.6 | 6.3 | 45 | 343 | 100 | 28 | 15 | 12 |
| 9..... | 30 | 23 | 8.0 | 7.0 | 5.1 | 7.2 | 52 | 374 | 92 | 25 | 11 | 11 |
| 10..... | 28 | 20 | 8.2 | 8.0 | 5.5 | 8.0 | 52 | 398 | 81 | 21 | 9.2 | 8.8 |
| 11..... | 30 | 21 | 9.0 | 8.2 | 5.2 | 7.7 | 49 | 410 | 81 | 19 | 7.9 | 9.2 |
| 12..... | 29 | 22 | 8.4 | 8.4 | 5.0 | 6.3 | 52 | 414 | 79 | 18 | 7.9 | 11 |
| 13..... | 27 | 19 | 8.0 | 7.5 | 5.0 | 6.2 | 64 | 351 | 73 | 18 | 7.5 | 13 |
| 14..... | 27 | 18 | 8.0 | 5.3 | 5.4 | 7.0 | 82 | 418 | 68 | 16 | 9.2 | 12 |
| 15..... | 25 | 18 | 7.4 | 5.2 | 5.6 | 9.0 | 98 | 414 | 70 | 16 | 9.2 | 10 |
| 16..... | 23 | 19 | 8.4 | 5.1 | 5.6 | 10 | 94 | 366 | 66 | 18 | 9.2 | 9.2 |
| 17..... | 23 | 20 | 8.3 | 5.3 | 5.5 | 13 | 81 | 347 | 59 | 30 | 9.7 | 10 |
| 18..... | 22 | 18 | 8.2 | 5.6 | 5.5 | 16 | 73 | 282 | 56 | 47 | 8.4 | 7.9 |
| 19..... | 22 | 16 | 8.1 | 5.0 | 5.5 | 19 | 88 | 232 | 53 | 37 | 7.9 | 214 |
| 20..... | 21 | 14 | 7.9 | 5.0 | 5.5 | 21 | 130 | 214 | 49 | 31 | 11 | 168 |
| 21..... | 20 | 15 | 7.7 | 5.3 | 5.7 | 25 | 158 | 186 | 46 | 27 | 11 | 137 |
| 22..... | 19 | 10 | 8.1 | 5.2 | 5.7 | 29 | 174 | 179 | 48 | 30 | 19 | 192 |
| 23..... | 18 | 8.4 | 8.3 | 5.1 | 5.9 | 38 | 205 | 194 | 75 | 36 | 21 | 156 |
| 24..... | 19 | 6.2 | 7.0 | 5.2 | 6.0 | 43 | 186 | 244 | 56 | 32 | 29 | 124 |
| 25..... | 21 | 11 | 9.9 | 5.0 | 6.1 | 49 | 161 | 269 | 51 | 29 | 35 | 102 |
| 26..... | 29 | 6.0 | 6.0 | 5.2 | 6.3 | 54 | 149 | 279 | 47 | 27 | 39 | 84 |
| 27..... | 19 | 6.0 | 5.8 | 5.6 | 6.5 | 58 | 161 | 282 | 43 | 27 | 35 | 77 |
| 28..... | 22 | 6.2 | 5.0 | 5.4 | 6.8 | 55 | 135 | 256 | 41 | 29 | 31 | 86 |
| 29..... | 22 | 6.4 | 5.0 | 5.3 | 6.9 | 52 | 113 | 229 | 38 | 29 | 27 | 154 |
| 30..... | 19 | 6.5 | 5.2 | 5.5 | ..... | 5.0 | 102 | 220 | 51 | 28 | 23 | 197 |
| 31..... | 21 | ..... | 5.3 | 5.5 | ..... | 5.0 | ..... | 220 | ..... | 2.5 | 2.2 | ..... |
| Total | 802 | 483.7 | 228.5 | 178.8 | 165.0 | 685.9 | 2834 | 8792 | 2508 | 920 | 509.8 | 2006.2 |
| Mean. | 25.9 | 16.1 | 7.37 | 5.77 | 5.69 | 22.1 | 94.5 | 284 | 83.6 | 29.7 | 16.4 | 66.9 |
| Max... | 40 | 23 | 9.9 | 8.4 | 6.9 | 58 | 205 | 418 | 208 | 5.3 | 3.9 | 214 |
| Min... | 18 | 6.0 | 5.0 | 5.0 | 5.0 | 6.2 | 45 | 94 | 38 | 16 | 7.5 | 8.8 |
| Acre-ft. | 1590 | 959 | 453 | 355 | 327 | 1360 | 5620 | 17440 | 4970 | 1820 | 1010 | 3980 |

Total run-off for water year 1939-40=39,880 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of La Plata River at Hesperus, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|
| 1..... | 11 | 9.7 | 8.8 | 5.0 | 3.0 | 4.0 | 39 | 105 | 37 | 17 | 5.9 | 4.5 |
| 2..... | 11 | 11 | 7.2 | 5.8 | 3.0 | 5.0 | 42 | 117 | 36 | 16 | 6.2 | 3.8 |
| 3..... | 11 | 10 | 6.9 | 6.4 | 2.9 | 7.0 | 51 | 107 | 60 | 14 | 7.6 | 4.0 |
| 4..... | 11 | 10 | 6.7 | 4.8 | 6.0 | 7.0 | 51 | 105 | 82 | 13 | 9.1 | 4.5 |
| 5..... | 11 | 9.7 | 6.6 | 3.0 | 5.0 | 4.2 | 51 | 134 | 75 | 12 | 9.1 | 6.7 |
| 6..... | 11 | 9.1 | 6.4 | 5.8 | 3.8 | 2.0 | 56 | 139 | 66 | 11 | 13 | 8.2 |
| 7..... | 12 | 8.5 | 6.0 | 7.0 | 10 | 3.4 | 55 | 129 | 70 | 11 | 11 | 8.2 |
| 8..... | 14 | 8.2 | 4.8 | 6.0 | 15 | 4.5 | 60 | 145 | 63 | 11 | 9.4 | 11 |
| 9..... | 12 | 8.2 | 4.6 | 5.8 | 13 | 4.6 | 73 | 164 | 58 | 9.4 | 9.4 | 11 |
| 10..... | 11 | 7.6 | 4.1 | 6.5 | 3.0 | 7.0 | 70 | 174 | 55 | 9.1 | 7.9 | 26 |
| 11..... | 11 | 7.6 | 4.0 | 6.0 | 3.5 | 9.6 | 56 | 155 | 53 | 9.1 | 7.6 | 62 |
| 12..... | 11 | 7.6 | 3.6 | 5.0 | 4.5 | 11 | 59 | 124 | 51 | 8.8 | 6.7 | 53 |
| 13..... | 12 | 7.3 | 3.2 | 5.0 | 6.0 | 15 | 62 | 97 | 52 | 8.2 | 6.2 | 41 |
| 14..... | 13 | 6.7 | 4.0 | 5.0 | 8.0 | 18 | 58 | 82 | 37 | 8.2 | 6.7 | 37 |
| 15..... | 13 | 6.7 | 6.0 | 5.6 | 9.2 | 13 | 50 | 75 | 27 | 8.5 | 7.9 | 34 |
| 16..... | 14 | 7.0 | 5.4 | 5.0 | 8.2 | 10 | 44 | 56 | 22 | 7.6 | 7.0 | 31 |
| 17..... | 15 | 7.3 | 4.5 | 3.0 | 8.2 | 7.5 | 40 | 45 | 26 | 6.7 | 6.4 | 24 |
| 18..... | 17 | 7.3 | 4.6 | 3.2 | 6.5 | 7.5 | 40 | 66 | 23 | 6.4 | 5.6 | 22 |
| 19..... | 18 | 7.3 | 4.7 | 4.5 | 5.0 | 8.0 | 51 | 119 | 23 | 7.6 | 5.1 | 20 |
| 20..... | 13 | 7.3 | 6.0 | 6.1 | 3.0 | 9.5 | 63 | 110 | 23 | 7.3 | 4.3 | 19 |
| 21..... | 13 | 7.3 | 5.9 | 12 | 2.0 | 12 | 92 | 101 | 22 | 7.0 | 4.3 | 18 |
| 22..... | 12 | 7.3 | 5.8 | 10 | 1.0 | 16 | 122 | 101 | 21 | 6.7 | 4.0 | 17 |
| 23..... | 13 | 7.5 | 5.6 | 9 | 2.0 | 21 | 112 | 88 | 20 | 6.2 | 4.0 | 16 |
| 24..... | 12 | 9.1 | 6.0 | 7.5 | 3.0 | 24 | 79 | 51 | 20 | 5.9 | 5.4 | 14 |
| 25..... | 11 | 12 | 7.0 | 8.5 | 2.6 | 26 | 63 | 34 | 20 | 6.2 | 5.4 | 14 |
| 26..... | 11 | 9.5 | 6.0 | 9.8 | 3.0 | 31 | 79 | 32 | 19 | 5.9 | 4.8 | 14 |
| 27..... | 9.7 | 8.5 | 6.0 | 11 | 4.0 | 30 | 88 | 36 | 18 | 6.2 | 4.0 | 14 |
| 28..... | 9.7 | 8.0 | 5.3 | 8.0 | 3.8 | 30 | 101 | 37 | 18 | 7.3 | 5.6 | 13 |
| 29..... | 11 | 7.0 | 4.9 | 6.0 | .... | 30 | 105 | 37 | 17 | 7.0 | 5.4 | 11 |
| 30..... | 10 | 6.6 | 6.0 | 7.2 | .... | 30 | 90 | 35 | 17 | 6.4 | 4.8 | 10 |
| 31..... | 10 | .... | 7.0 | 7.8 | .... | 31 | .... | 34 | .... | 6.2 | 4.3 | .... |
| Total | 374.4 | 246.9 | 173.6 | 201.3 | 148.2 | 438.8 | 2002 | 2834 | 1131 | 272.9 | 204.1 | 571.9 |
| Mean. | 12.1 | 8.23 | 5.60 | 6.49 | 5.29 | 14.2 | 66.7 | 91.4 | 37.7 | 8.80 | 6.58 | 19.1 |
| Max.. | 18 | 12 | 8.8 | 12 | 15 | 31 | 122 | 174 | 82 | 17 | 13 | 62 |
| Min.. | 9.7 | 6.6 | 3.2 | 3 | 1 | 2 | 39 | 32 | 17 | 5.9 | 4 | 3.8 |
| Acre-ft. | 743 | 490 | 344 | 399 | 294 | 870 | 3970 | 5620 | 2240 | 541 | 405 | 1130 |

Total run-off for water year 1938-39=17,050 acre-feet.

Discharge of La Plata River at Hesperus, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|
| 1..... | 9.1 | 5.6 | 5.1 | .... | .... | 4.8 | 36 | 50 | 114 | 20 | 12 | 14 |
| 2..... | 9.1 | 5.6 | 5.1 | 3.9 | .... | 5.0 | 34 | 62 | 106 | 24 | 12 | 14 |
| 3..... | 9.1 | 5.4 | 5.1 | .... | 4.9 | 5.0 | 32 | 88 | 104 | 23 | 11 | 14 |
| 4..... | 9.1 | 5.4 | 5.1 | .... | .... | 5.0 | 30 | 132 | 109 | 22 | 10 | 14 |
| 5..... | 7.9 | 5.4 | 5.1 | .... | .... | 5.0 | 30 | 152 | 99 | 21 | 9.7 | 13 |
| 6..... | 7.3 | 5.4 | 5.1 | .... | .... | 5.0 | 30 | 142 | 92 | 22 | 10 | 12 |
| 7..... | 7.0 | 5.4 | 4.5 | .... | .... | 5.0 | 36 | 161 | 82 | 18 | 10 | 11 |
| 8..... | 7.6 | 5.6 | 4.5 | .... | .... | 5.0 | 39 | 150 | 67 | 16 | 8.4 | 11 |
| 9..... | 6.7 | 6.2 | 4.5 | .... | .... | 5.0 | 42 | 150 | 31 | 14 | 7.0 | 11 |
| 10..... | 6.7 | 6.4 | 4.5 | .... | .... | 5.0 | 44 | 161 | 24 | 14 | 7.0 | 11 |
| 11..... | 5.9 | 6.4 | 4.5 | .... | .... | 5.3 | 44 | 147 | 27 | 14 | 5.3 | 10 |
| 12..... | 5.6 | 6.2 | 4.3 | .... | .... | 5.3 | 60 | 139 | 29 | 12 | 4.7 | 9.7 |
| 13..... | 5.4 | 6.2 | 4.3 | .... | .... | 5.3 | 68 | 145 | 27 | 12 | 4.7 | 7.9 |
| 14..... | 5.4 | 6.2 | 4.3 | .... | .... | 5.3 | 103 | 170 | 28 | 12 | 7.0 | 6.0 |
| 15..... | 5.4 | 6.2 | 4.3 | .... | .... | 5.3 | 122 | 196 | 24 | 11 | 6.6 | 4.7 |
| 16..... | 5.4 | 5.9 | 3.6 | 4.6 | .... | 5.6 | 90 | 189 | 20 | 12 | 6.0 | 4.4 |
| 17..... | 5.4 | 5.9 | 3.6 | .... | .... | 5.8 | 68 | 177 | 21 | 11 | 6.0 | 5.6 |
| 18..... | 5.4 | 5.6 | 3.6 | .... | .... | 6.0 | 68 | 152 | 21 | 11 | 6.0 | 19 |
| 19..... | 5.6 | 5.4 | 3.6 | .... | .... | 6.2 | 107 | 118 | 33 | 11 | 5.3 | 4.5 |
| 20..... | 6.2 | 5.4 | 3.6 | .... | .... | 6.4 | 167 | 100 | 45 | 9.2 | 6.0 | 36 |
| 21..... | 6.2 | 5.1 | 3.7 | .... | 4.8 | 7.3 | 164 | 74 | 42 | 8.8 | 7.5 | 30 |
| 22..... | 5.9 | 5.1 | 3.7 | .... | .... | 8.2 | 150 | 79 | 44 | 8.8 | 7.9 | 28 |
| 23..... | 5.9 | 5.1 | 3.7 | .... | .... | 8.5 | 137 | 82 | 42 | 8.8 | 6.0 | 29 |
| 24..... | 5.6 | 5.1 | 3.8 | .... | .... | 9.7 | 103 | 91 | 40 | 9.7 | 8.8 | 30 |
| 25..... | 5.9 | 5.4 | 3.8 | .... | .... | 14 | 84 | 94 | 36 | 9.7 | 8.4 | 27 |
| 26..... | 8.8 | 5.4 | 3.8 | .... | .... | 39 | 84 | 94 | 34 | 11 | 7.9 | 26 |
| 27..... | 7.0 | 5.4 | 3.8 | .... | .... | 41 | 86 | 111 | 32 | 11 | 9.2 | 25 |
| 28..... | 6.4 | 5.4 | 3.8 | .... | .... | 37 | 71 | 106 | 30 | 12 | 11 | 28 |
| 29..... | 6.2 | 5.4 | 3.8 | .... | .... | 36 | 60 | 114 | 28 | 12 | 12 | 35 |
| 30..... | 5.9 | 5.4 | 3.8 | .... | .... | 36 | 52 | 116 | 28 | 12 | 12 | 52 |
| 31..... | 5.9 | .... | 3.8 | .... | .... | 35 | .... | 124 | .... | 11 | 12 | .... |
| Total | 205.3 | 168.6 | 129.8 | 133.3 | 139.2 | 378.2 | 2241 | 3856 | 1459 | 424.0 | 257.4 | 583.3 |
| Mean. | 6.62 | 5.62 | 4.19 | 4.30 | 4.80 | 12.2 | 74.7 | 124 | 48.6 | 13.7 | 8.30 | 19.4 |
| Max.. | 9.1 | 6.4 | 5.1 | .... | .... | 41 | 167 | 196 | 114 | 24 | 12 | 52 |
| Min.. | 5.4 | 5.1 | 3.6 | .... | .... | 4.8 | 30 | 50 | 20 | 8.8 | 4.7 | 4.4 |
| Acre-ft. | 407 | 334 | 257 | 264 | 276 | 750 | 4440 | 7650 | 2890 | 841 | 511 | 1160 |

Total run-off for water year 1939-40=19,780 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of La Plata River at Colorado-New Mexico Line for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|------|------|------|--------|-------|------|------|-------|
| 1.... | 0.6 | 3.6 | 14 | 8.6 | 10 | 6 | 36 | 71 | 0 | 0 | 1.1 | 0 |
| 2.... | 1.1 | 6.3 | 12 | 9.0 | 6.0 | 10 | 40 | 58 | 0 | 0 | 0.7 | 0 |
| 3.... | 1.7 | 5.9 | 11 | 12 | 7.0 | 20 | 74 | 28 | 0 | 0 | 1.2 | 0 |
| 4.... | 1.4 | 5.5 | 8.6 | 8.2 | 13 | 9.0 | 104 | 38 | 0 | 0 | 0.2 | 0 |
| 5.... | 0.8 | 5.2 | 8.6 | 6.6 | 9.5 | 7.0 | 61 | 59 | 58 | 0.3 | 0.1 | 0 |
| 6.... | 1.1 | 4.8 | 8.6 | 11 | 7.5 | 11 | 50 | 76 | 67 | 1.4 | 0 | 2.6 |
| 7.... | 20 | 4.4 | 9.0 | 9.0 | 16 | 11 | 41 | 34 | 59 | 2.3 | 0 | 2.3 |
| 8.... | 68 | 3.6 | 9.0 | 6.3 | 20 | 11 | 38 | 17 | 55 | 2.0 | 0 | 1.2 |
| 9.... | 9.0 | 3.6 | 8.2 | 7.4 | 18 | 12 | 51 | 42 | 50 | 1.8 | 0 | 0.1 |
| 10.... | 7.0 | 4.2 | 8.2 | 7.8 | 11 | 14 | 58 | 48 | 44 | 1.5 | 0 | 43 |
| 11.... | 6.6 | 4.6 | 8.2 | 6.3 | 6.0 | 17 | 56 | 61 | 44 | 0.8 | 0 | 50 |
| 12.... | 5.2 | 6.1 | 8.6 | 6.3 | 9.0 | 21 | 35 | 61 | 41 | 0.5 | 0 | 15 |
| 13.... | 4.8 | 6.3 | 7.8 | 6.3 | 12 | 37 | 28 | 57 | 40 | 0.4 | 0 | 8.6 |
| 14.... | 4.2 | 8.2 | 9.4 | 6.3 | 14 | 50 | 27 | 59 | 5.0 | 0.4 | 0 | 4.4 |
| 15.... | 3.0 | 7.4 | 12 | 6.3 | 15 | 40 | 21 | 61 | 0 | 0.8 | 0 | 7.8 |
| 16.... | 2.6 | 8.2 | 10 | 6.3 | 16 | 34 | 18 | 61 | 0 | 0.3 | 0 | 4.0 |
| 17.... | 3.4 | 8.2 | 9.8 | 5.2 | 17 | 31 | 16 | 42 | 0 | 0.4 | 0 | 2.3 |
| 18.... | 2.8 | 8.2 | 9.4 | 4.9 | 16 | 32 | 12 | 38 | 0 | 1.1 | 0 | 1.2 |
| 19.... | 2.3 | 9.4 | 8.6 | 10 | 12 | 38 | 9.0 | 97 | 0 | 1.1 | 0 | 1.1 |
| 20.... | 2.5 | 8.6 | 9.4 | 20 | 7 | 58 | 11 | 95 | 0 | 0.9 | 0 | 0.9 |
| 21.... | 2.5 | 8.6 | 9.8 | 21 | 4 | 79 | 31 | 77 | 0 | 0.9 | 0 | 1.0 |
| 22.... | 2.5 | 8.6 | 9.0 | 17 | 3 | 107 | 46 | 71 | 0 | 0.9 | 0 | 1.7 |
| 23.... | 2.5 | 8.6 | 8.6 | 12 | 5 | 85 | 43 | 63 | 0 | 0.9 | 0 | 1.1 |
| 24.... | 2.5 | 15 | 9.4 | 11 | 8 | 66 | 38 | 5.9 | 0.7 | 0.7 | 0 | 0.6 |
| 25.... | 2.5 | 19 | 11 | 10 | 9 | 43 | 22 | 0 | 0.6 | 0.5 | 0 | 0.4 |
| 26.... | 2.5 | 14 | 11 | 13 | 8 | 37 | 39 | 0 | 0.7 | 0.1 | 0 | 1.2 |
| 27.... | 2.3 | 12 | 9.8 | 16 | 7 | 35 | 55 | 0 | 0.8 | 0.3 | 0 | 1.8 |
| 28.... | 2.2 | 12 | 8.6 | 17 | 4 | 42 | 55 | 0 | 0.8 | 2.3 | 1.5 | 0.7 |
| 29.... | 2.2 | 11 | 7.0 | 10 | .... | 53 | 66 | 0 | 0.3 | 3.8 | 0 | 0.2 |
| 30.... | 2.3 | 12 | 7.8 | 10 | .... | 53 | 52 | 0 | 0 | 1.7 | 0 | 0.2 |
| 31.... | 2.8 | .... | 9.8 | 14 | .... | 47 | .... | 0 | .... | 1.8 | 0 | .... |
| Total | 174.9 | 243.1 | 292.2 | 314.8 | 290 | 1116 | 1233 | 1319.9 | 502.9 | 50.6 | 4.8 | 153.4 |
| Mean. | 5.64 | 8.10 | 9.43 | 10.2 | 10.4 | 36.0 | 41.1 | 42.6 | 16.8 | 1.63 | 0.15 | 5.11 |
| Max. | 68 | 19 | 14 | 21 | 20 | 107 | 104 | 97 | 67 | 23 | 1.5 | 50 |
| Min. | 0.6 | 3.6 | 7.0 | 4.9 | 3 | 6 | 9 | 0 | 0 | 0 | 0 | 0 |
| Acre-ft. | 347 | 482 | 580 | 624 | 575 | 2210 | 2450 | 2620 | 997 | 100 | 10 | 304 |

Total run-off for water year 1938-39=11,300 acre-feet.

Discharge of La Plata River at Colorado-New Mexico State Line for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|-------|-------|-------|------|-------|--------|-------|------|-------|-------|
| 1.... | 0.1 | 0.1 | 5.2 | 6.1 | 12 | 21 | 15 | 16 | 85 | 1.2 | 1.1 | 1.4 |
| 2.... | 0.1 | 0.2 | 4.8 | 6.1 | 20 | 20 | 19 | 16 | 83 | 0 | 1.1 | 0.7 |
| 3.... | 0.1 | 0.5 | 3.4 | 7.0 | 12 | 16 | 16 | 19 | 73 | 0 | 0.7 | 0.6 |
| 4.... | 0.1 | 0.2 | 3.4 | 4.6 | 12 | 16 | 16 | 50 | 98 | 0 | 0.2 | 0.7 |
| 5.... | 0.2 | 0 | 3.6 | 7.6 | 10 | 14 | 17 | 71 | 90 | 0 | 0 | 0.5 |
| 6.... | 0.5 | 0.1 | 3.6 | 6.5 | 7.8 | 14 | 14 | 49 | 85 | 0 | 0.1 | 0 |
| 7.... | 0.2 | 0 | 3.4 | 5.3 | 11 | 14 | 12 | 56 | 76 | 0 | 2.2 | 0 |
| 8.... | 0.7 | 0 | 3.4 | 10 | 9.8 | 14 | 9.8 | 66 | 64 | 0 | 0.8 | 0 |
| 9.... | 0.7 | 1.8 | 2.6 | 11 | 7.8 | 16 | 12 | 67 | 14 | 0 | 1.2 | 0 |
| 10.... | 0.1 | 1.0 | 3.2 | 11 | 6.1 | 15 | 12 | 73 | 0 | 0 | 0.2 | 0 |
| 11.... | 0.1 | 0 | 4.2 | 10 | 6.3 | 14 | 14 | 66 | 0 | 0 | 0.2 | 0.7 |
| 12.... | 0.2 | 0 | 3.6 | 12 | 8.2 | 12 | 19 | 74 | 0 | 0 | 0.2 | 0.5 |
| 13.... | 0.1 | 0 | 2.6 | 11 | 5.0 | 12 | 30 | 77 | 0 | 0.4 | 0.2 | 0 |
| 14.... | 0 | 0 | 3.4 | 6.0 | 7.4 | 11 | 55 | 119 | 0 | 1.8 | 0.2 | 0 |
| 15.... | 0.1 | 0 | 3.2 | 5.0 | 7.8 | 12 | 61 | 115 | 0 | 3.0 | 0.7 | 0 |
| 16.... | 0.6 | 0 | 4.4 | 3.4 | 5.9 | 12 | 42 | 85 | 0 | 4.2 | 0.5 | 0.9 |
| 17.... | 0.1 | 0.2 | 5.0 | 4.0 | 5.0 | 14 | 61 | 82 | 0 | 1.8 | 0.5 | 2.8 |
| 18.... | 0.1 | 1.3 | 5.5 | 5.0 | 4.8 | 15 | 39 | 100 | 0 | 2.8 | 0.1 | 2.1 |
| 19.... | 0.1 | 2.2 | 5.2 | 7.0 | 5.5 | 16 | 33 | 18 | 0 | 3.8 | 0.1 | 1.4 |
| 20.... | 0 | 1.7 | 4.6 | 9.2 | 5.2 | 19 | 48 | 12 | 1.6 | 4.0 | 0.3 | 6.1 |
| 21.... | 0 | 1.8 | 4.2 | 10 | 5.7 | 21 | 44 | 0 | 18 | 3.6 | 1.6 | 6.1 |
| 22.... | 0 | 1.2 | 4.6 | 7.2 | 8.2 | 21 | 56 | 1.2 | 24 | 4.0 | 10 | 5.2 |
| 23.... | 0 | 2.3 | 5.0 | 9.2 | 12 | 18 | 77 | 0 | 23 | 3.4 | 1.2 | 5.2 |
| 24.... | 0 | 2.5 | 5.0 | 11 | 16 | 18 | 58 | 0 | 23 | 14 | 186 | 3.4 |
| 25.... | 0 | 1.4 | 6.8 | 10 | 13 | 18 | 39 | 0 | 21 | 5.9 | 109 | 4.0 |
| 26.... | 0.7 | 2.0 | 4.4 | 10 | 27 | 20 | 32 | 0 | 18 | 2.2 | 6.6 | 4.0 |
| 27.... | 0.2 | 1.7 | 6.3 | 9.5 | 20 | 21 | 48 | 0 | 17 | 3.4 | 4.0 | 4.6 |
| 28.... | 0 | 1.7 | 6.1 | 8.4 | 20 | 22 | 46 | 0 | 16 | 1.7 | 2.8 | 4.2 |
| 29.... | 0 | 2.2 | 5.8 | 10 | 21 | 20 | 32 | 0 | 16 | 1.2 | 2.5 | 5.0 |
| 30.... | 0 | 3.4 | 5.5 | 9.6 | .... | 18 | 22 | 87 | 14 | 1.2 | 1.5 | 4.0 |
| 31.... | 0 | .... | 8.0 | 10 | .... | 15 | .... | 91 | .... | 1.5 | 1.4 | .... |
| Total | 5.1 | 29.5 | 140.0 | 252.7 | 312.5 | 509 | 998.8 | 1399.4 | 859.6 | 65.1 | 371.4 | 186.5 |
| Mean. | 0.16 | 0.98 | 4.52 | 8.15 | 10.8 | 16.4 | 33.3 | 45.1 | 28.7 | 2.10 | 12.0 | 6.22 |
| Max. | 0.7 | 3.4 | 8.0 | 12 | 27 | 22 | 77 | 119 | 98 | 14 | 186 | 61 |
| Min. | 0 | 0 | 2.6 | 3.4 | 4.8 | 11 | 9.8 | 0 | 0 | 0 | 0 | 0 |
| Acre-ft. | 10 | 59 | 278 | 501 | 620 | 1010 | 1980 | 2780 | 1700 | 129 | 737 | 370 |

Total run-off for water year 1939-40=10,170 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cherry Creek Near Red Mesa, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|-------|-------|-------|------|------|------|-------|
| 1.... | 2.2 | 2.2 | .... | .... | .... | 1.5 | 22 | 16 | 0.6 | 0 | 0 | 0 |
| 2.... | 2.2 | 2.6 | .... | .... | .... | 1.5 | 22 | 16 | 0.4 | 0 | 0 | 0 |
| 3.... | 2.0 | 2.7 | .... | .... | .... | 1.5 | 22 | 15 | 0.2 | 0 | 0 | 0 |
| 4.... | 2.0 | 2.9 | .... | .... | .... | 1.5 | 36 | 13 | 0 | 0 | 0 | 0 |
| 5.... | 2.0 | 3.1 | .... | .... | .... | 1.5 | 26 | 12 | 0 | 0 | 0 | 0 |
| 6.... | 2.0 | 3.5 | .... | .... | .... | 1.5 | 22 | 10 | 0 | 0 | 0 | 0 |
| 7.... | 5.0 | 3.3 | .... | .... | .... | 2 | 19 | 9.3 | 0 | 0 | 0 | 0 |
| 8.... | 10 | 2.7 | .... | .... | .... | 2 | 18 | 6.9 | 0 | 0 | 0 | 0 |
| 9.... | 4.0 | 2.4 | .... | .... | .... | 2 | 22 | 3.8 | 0 | 0 | 0 | 0 |
| 10.... | 3.6 | 2.2 | .... | .... | .... | 2 | 22 | 3.5 | 0 | 0 | 0 | 0 |
| 11.... | 3.1 | 2.2 | .... | *1.0 | .... | 2 | 19 | 3.5 | 0 | 0 | 0 | 2.0 |
| 12.... | 2.0 | 2.0 | .... | .... | .... | 3 | 19 | 2.6 | 0 | 0 | 0 | 1.0 |
| 13.... | 2.0 | 1.8 | .... | .... | .... | 3 | 18 | 2.7 | 0 | 0 | 0 | 0 |
| 14.... | 2.0 | 1.8 | .... | .... | .... | 4 | 18 | 2.2 | 0 | 0 | 0 | 0 |
| 15.... | 2.0 | 1.8 | .... | .... | .... | 4.6 | 16 | 3.6 | 0 | 0 | 0 | 0 |
| 16.... | 2.0 | 1.7 | .... | .... | .... | 11 | 13 | 4.8 | 0 | 0 | 0 | 0 |
| 17.... | 2.0 | 1.6 | .... | .... | .... | 16 | 12 | 3.5 | 0 | 0 | 0 | 0 |
| 18.... | 2.0 | 2.2 | .... | .... | .... | 10 | 12 | 3.1 | 0 | 0 | 0 | 0 |
| 19.... | 2.0 | 2.0 | .... | .... | .... | 22 | 13 | 2.6 | 0 | 0 | 0 | 0 |
| 20.... | 2.2 | 2.2 | .... | .... | .... | 38 | 13 | 2.2 | 0 | 0 | 0 | 0 |
| 21.... | 2.2 | 2.7 | .... | .... | .... | 58 | 15 | 2.2 | 0 | 0 | 0 | 0 |
| 22.... | 2.6 | 3.1 | .... | .... | .... | 54 | 15 | 2.2 | 0 | 0 | 0 | 0 |
| 23.... | 3.1 | 3.1 | .... | .... | .... | 52 | 18 | 2.2 | 0 | 0 | 0 | 0 |
| 24.... | 3.1 | 3.0 | .... | .... | .... | 32 | 12 | 1.4 | 0 | 0 | 0 | 0 |
| 25.... | 3.1 | 3.0 | .... | .... | .... | 22 | 8.3 | 1.0 | 0 | 0 | 0 | 0 |
| 26.... | 3.0 | 2.5 | *1.5 | .... | .... | 22 | 7.6 | 0.8 | 0 | 0 | 0 | 0 |
| 27.... | 3.0 | 2.5 | .... | .... | *1.5 | 20 | 8.3 | 0.8 | 0 | 0 | 0 | 0 |
| 28.... | 3.0 | 2.0 | .... | .... | .... | 20 | 13 | 0.8 | 0 | 0 | 0 | 0 |
| 29.... | 2.9 | 2.0 | .... | .... | .... | 20 | 14 | 0.7 | 0 | 0 | 0 | 0 |
| 30.... | 2.6 | 2.0 | .... | .... | .... | 19 | 16 | 0.7 | 0 | 0 | 0 | 0 |
| 31.... | 2.2 | .... | .... | .... | .... | 27 | .... | 0.7 | .... | 0 | 0 | .... |
| Total | 87.1 | 72.8 | 46.5 | 31.0 | 35.0 | 476.6 | 511.2 | 149.9 | 1.2 | 0 | 0 | 3.0 |
| Mean.. | 2.81 | 2.43 | 1.50 | 1.00 | 1.25 | 15.4 | 17.0 | 4.84 | 0.04 | 0 | 0 | 0.10 |
| Max... | 10 | 3.5 | .... | .... | .... | 58 | 36 | 16 | 0.6 | 0 | 0 | 2.0 |
| Min... | 2.0 | 1.6 | .... | .... | .... | 1.5 | 7.6 | 0.7 | 0 | 0 | 0 | 0 |
| Acre-ft. | 173 | 144 | 92 | 61 | 69 | 945 | 1010 | 297 | 2.4 | 0 | 0 | 6.0 |

Total run-off for water year 1938-39=2,800 acre-feet.

*Discharge measurement.

Discharge of Cherry Creek Near Red Mesa, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|-------|-------|-------|------|------|------|-------|
| 1.... | 0 | 0 | .... | .... | .... | 2.0 | 7.8 | 22 | 0.9 | 0 | 0 | 0 |
| 2.... | 0 | 0 | .... | .... | .... | 2.0 | 8.4 | 22 | 0.5 | 0 | 0 | 0 |
| 3.... | 0 | 0 | .... | .... | .... | 2.0 | 7.4 | 22 | 0.5 | 0 | 0 | 0 |
| 4.... | 0 | 0 | .... | .... | .... | 2.0 | 9.7 | 24 | 0 | 0 | 0 | 0 |
| 5.... | 0 | 0 | .... | .... | .... | 2.0 | 14 | 26 | 0 | 0 | 0 | 0 |
| 6.... | 0 | 0 | .... | .... | .... | 2.5 | 12 | 25 | 0 | 0 | 0 | 0 |
| 7.... | 0 | 0 | .... | .... | .... | 2.5 | 14 | 24 | 0 | 0 | 0 | 0 |
| 8.... | 0 | 0 | .... | .... | .... | 2.5 | 13 | 22 | 0 | 0 | 0 | 0 |
| 9.... | 0 | 0 | .... | .... | .... | 2.5 | 14 | 16 | 0 | 0 | 0 | 0 |
| 10.... | 0 | 0 | .... | .... | .... | 2.5 | 15 | 16 | 0 | 0 | 0 | 0 |
| 11.... | 0 | 0 | .... | .... | .... | 3.0 | 12 | 14 | 0 | 0 | 0 | 0 |
| 12.... | 0 | 0 | .... | .... | .... | 3.0 | 13 | 12 | 0 | 0 | 0 | 0 |
| 13.... | 0 | 0 | .... | .... | .... | 3.2 | 13 | 9.4 | 0 | 0 | 0 | 0 |
| 14.... | 0 | 0 | .... | .... | .... | 2.8 | 18 | 7.8 | 0 | 0 | 0 | 0 |
| 15.... | 0 | 0 | 0.5 | .... | .... | 2.4 | 25 | 7.8 | 0 | 0 | 0 | 0 |
| 16.... | 0 | 0 | .... | .... | .... | 2.2 | 26 | 7.8 | 0 | 0 | 0 | 0 |
| 17.... | 0 | 0 | .... | .... | .... | 4.2 | 23 | 8.7 | 0 | 0 | 0 | 0 |
| 18.... | 0 | 0 | .... | .... | .... | 5.0 | 20 | 5.8 | 0 | 0 | 0 | 0 |
| 19.... | 0 | 0 | .... | .... | .... | 7.4 | 19 | 5.0 | 0 | 0 | 0 | 1.6 |
| 20.... | 0 | 0.2 | .... | .... | .... | 12 | 24 | 4.2 | 0 | 0 | 0 | 4.5 |
| 21.... | 0 | 0.5 | .... | .... | .... | 10 | 29 | 3.8 | 0 | 0 | 0 | 0.5 |
| 22.... | 0 | 0.5 | .... | .... | .... | 9.7 | 32 | 4.5 | 0 | 0 | 0 | 0 |
| 23.... | 0 | 0.5 | .... | .... | .... | 9.4 | 34 | 3.8 | 0 | 0 | 0 | 0 |
| 24.... | 0 | 0.5 | .... | .... | .... | 9.0 | 34 | 2.8 | 0 | 0 | 5.6 | 0 |
| 25.... | 0 | 0.5 | .... | .... | .... | 9.0 | 30 | 1.7 | 0 | 0 | 80 | 0 |
| 26.... | 0 | 0.5 | .... | .... | .... | 9.4 | 27 | 1.6 | 0 | 0 | 2.0 | 0 |
| 27.... | 0 | 0.5 | .... | .... | .... | 10 | 26 | 1.4 | 0 | 0 | 0.6 | 0 |
| 28.... | 0 | 0.5 | .... | .... | .... | 10 | 25 | 1.2 | 0 | 0 | 0 | 0 |
| 29.... | 0 | 0.5 | .... | .... | .... | 9.7 | 25 | 1.1 | 0 | 0 | 0 | 0.2 |
| 30.... | 0 | 0.5 | .... | .... | .... | 7.4 | 24 | 1.0 | 0 | 0 | 0 | 3.2 |
| 31.... | 0 | .... | .... | .... | .... | 7.1 | .... | 1.0 | .... | 0 | 0 | .... |
| Total | 0 | 5.2 | 24.8 | 24.8 | 29.0 | 168.4 | 594.3 | 325.4 | 1.9 | 0 | 88.2 | 10.0 |
| Mean.. | 0 | 0.17 | 0.80 | 0.80 | 1.00 | 5.43 | 19.8 | 10.5 | 0.06 | 0 | 2.85 | 0.33 |
| Max... | 0 | 0.5 | .... | .... | .... | 12 | 34 | 26 | 0.9 | 0 | 80 | 4.5 |
| Min... | 0 | 0 | .... | .... | .... | 2 | 7.4 | 1.0 | 0 | 0 | 0 | 0 |
| Acre-ft. | 0 | 10 | 49 | 49 | 58 | 334 | 1180 | 645 | 3.8 | 0 | 175 | 20 |

Total run-off for water year 1939-40=2,520 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of East Mancos River Near Mancos, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|--------|------|------|------|---------|-------|------|-------|------|------|-------|
| 1.... | 1.7 | 1.1 | .... | .... | .... | .... | 7.8 | 31 | 12 | 1.5 | 0.9 | 0.9 |
| 2.... | 1.5 | 1.1 | .... | .... | .... | .... | 9.5 | 33 | 14 | 1.8 | 0.6 | 0.7 |
| 3.... | 1.4 | 0.8 | .... | .... | .... | .... | 12 | 31 | 16 | 2.0 | 0.8 | 0.4 |
| 4.... | 1.3 | 1.1 | .... | .... | .... | .... | 13 | 29 | 16 | 1.9 | 0.8 | 0.2 |
| 5.... | 1.3 | 1.3 | .... | .... | .... | .... | 12 | 35 | 15 | 1.7 | 0.8 | 0.5 |
| 6.... | 1.6 | 0.6 | .... | .... | .... | .... | 12 | 37 | 11 | 1.5 | 1.1 | 2.1 |
| 7.... | 1.6 | 0.5 | .... | .... | .... | .... | 11 | 30 | 11 | 1.3 | 1.2 | 6.3 |
| 8.... | 2.8 | 0.7 | .... | .... | .... | .... | 13 | 32 | 10 | 1.2 | 0.8 | 6.3 |
| 9.... | 1.9 | .... | .... | .... | .... | .... | 17 | 37 | 9.5 | 1.1 | 0.6 | 7.8 |
| 10.... | 1.8 | .... | .... | .... | .... | .... | 15 | 41 | 9.5 | 1.1 | 0.5 | 1.2 |
| 11.... | 1.9 | .... | .... | .... | .... | .... | 14 | 36 | 10 | 0.9 | 0.4 | 2.2 |
| 12.... | 1.8 | .... | .... | .... | .... | .... | 14 | 32 | 8.4 | 0.7 | 0.3 | 1.7 |
| 13.... | 2.0 | .... | .... | .... | .... | .... | 15 | 30 | 7.8 | 0.4 | 0.2 | 1.1 |
| 14.... | 2.1 | .... | .... | .... | .... | .... | 14 | 30 | 6.9 | 0.8 | 0.2 | 6.0 |
| 15.... | 2.4 | .... | .... | .... | .... | .... | 12 | 26 | 6.3 | 1.6 | 0.3 | 4.0 |
| 16.... | 2.6 | .... | .... | .... | .... | .... | 9.5 | 17 | 5.4 | 1.4 | 0.2 | 2.8 |
| 17.... | 2.6 | .... | .... | .... | .... | .... | 8.4 | 12 | 4.8 | 0.9 | 0 | 2.0 |
| 18.... | 2.2 | .... | .... | .... | .... | .... | 11 | 15 | 4.2 | 0.8 | 0 | 1.4 |
| 19.... | 2.1 | .... | .... | .... | .... | Mar. 21 | 16 | 20 | 3.6 | 0.6 | 0 | 1.1 |
| 20.... | 2.0 | .... | .... | .... | .... | to 31 | 21 | 22 | 3.2 | 0.3 | 0 | 0.9 |
| 21.... | 1.9 | .... | .... | .... | .... | 10 | 29 | 21 | 2.8 | 0.4 | 0 | 0.7 |
| 22.... | 1.8 | .... | .... | .... | .... | 11 | 30 | 22 | 3.0 | 0.6 | 0 | 0.4 |
| 23.... | 1.7 | .... | .... | .... | .... | 14 | 27 | 20 | 3.0 | 0.6 | 0 | 0.4 |
| 24.... | 1.5 | .... | .... | .... | .... | 14 | 18 | 15 | 3.0 | 0.3 | 0 | 0.5 |
| 25.... | 1.2 | .... | .... | .... | .... | 8.4 | 17 | 14 | 2.8 | 0.4 | 0 | 0.8 |
| 26.... | 1.2 | .... | .... | .... | .... | 8.9 | 23 | 15 | 2.4 | 0.4 | 0 | 1.1 |
| 27.... | 1.1 | .... | .... | .... | .... | 6.9 | 27 | 17 | 2.0 | 0.8 | 0 | 2.0 |
| 28.... | 1.0 | .... | .... | .... | .... | 5.1 | 32 | 15 | 1.7 | 2.2 | 1.1 | 2.0 |
| 29.... | 1.0 | .... | .... | .... | .... | 5.1 | 32 | 16 | 1.6 | 2.2 | 1.1 | 1.9 |
| 30.... | 1.0 | Nov. 1 | .... | .... | .... | 5.1 | 29 | 11 | 1.8 | 2.4 | 1.1 | 1.5 |
| 31.... | 1.0 | to 8 | .... | .... | .... | 6.0 | .... | 12 | .... | 1.6 | 1.0 | .... |
| Total | 53.0 | 7.2 | .... | .... | .... | 94.5 | 521.2 | 754 | 208.7 | 35.4 | 14.0 | 116.7 |
| Mean. | 1.71 | 0.90 | .... | .... | .... | 8.59 | 17.4 | 24.3 | 6.96 | 1.14 | 0.45 | 3.89 |
| Max.. | 2.8 | 1.3 | .... | .... | .... | 14 | 32 | 41 | 16 | 2.4 | 1.2 | 2.2 |
| Min.. | 1.0 | 0.5 | .... | .... | .... | 5.1 | 7.8 | 11 | 1.6 | 0.3 | 0 | 0.2 |
| Acres-ft. | 105 | 14 | .... | .... | .... | 187 | 1030 | 1500 | 414 | 70 | 28 | 231 |

Total run-off for period=3,579 acre-feet.

Discharge of East Mancos River Near Mancos, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----------|------|------|------|------|------|-------|-------|------|-------|------|------|-------|
| 1.... | 1.0 | 1.6 | 1.1 | .... | .... | 0.8 | 6.6 | 17 | 31 | 4.8 | 0.9 | 0.8 |
| 2.... | 1.1 | 1.6 | 1.1 | .... | .... | 0.8 | 5.4 | 23 | 27 | 4.2 | 1.0 | 0.7 |
| 3.... | 1.1 | 1.5 | 1.1 | .... | .... | 0.8 | 5.4 | 30 | 23 | 3.8 | 0.8 | 0.6 |
| 4.... | 1.1 | 1.5 | 1.1 | .... | .... | 1.0 | 4.2 | 42 | 22 | 3.6 | 0.6 | 0.6 |
| 5.... | 1.1 | 1.5 | 1.4 | .... | .... | 1.0 | 4.5 | 44 | 17 | 3.4 | 0.6 | 0.4 |
| 6.... | 1.1 | 1.5 | 1.1 | .... | .... | 1.0 | 4.2 | 45 | 15 | 2.6 | 1.0 | 0.2 |
| 7.... | 1.1 | 1.3 | 1.1 | .... | .... | 1.0 | 4.8 | 47 | 14 | 2.4 | 1.8 | 0.4 |
| 8.... | 1.1 | 1.2 | 1.1 | .... | .... | 1.0 | 5.7 | 41 | 13 | 1.9 | 1.1 | 0.4 |
| 9.... | 1.1 | 1.4 | 1.1 | .... | .... | 1.5 | 5.7 | 38 | 12 | 1.8 | 0.9 | 0.4 |
| 10.... | 1.0 | 1.3 | 1.0 | .... | .... | 1.5 | 6.3 | 36 | 9.5 | 1.7 | 0.8 | 0.4 |
| 11.... | 0.9 | 1.2 | 1.0 | .... | .... | 1.5 | 6.6 | 38 | 10 | 1.6 | 1.2 | 0.4 |
| 12.... | 0.7 | 1.1 | 0.8 | .... | .... | 2.0 | 9.5 | 34 | 11 | 1.6 | 1.0 | 0.4 |
| 13.... | 0.7 | 1.1 | 0.6 | .... | .... | 2.0 | 15 | 38 | 10 | 1.4 | 0.8 | 0.9 |
| 14.... | 0.8 | 1.1 | 0.6 | .... | .... | 2.2 | 27 | 59 | 11 | 1.1 | 0.6 | 0.5 |
| 15.... | 0.9 | 0.9 | 0.5 | .... | .... | 2.4 | 35 | 70 | 8.9 | 1.4 | 0.7 | 0.4 |
| 16.... | 1.1 | 0.8 | 0.5 | .... | .... | 2.2 | 25 | 64 | 6.9 | 1.1 | 0.6 | 0.4 |
| 17.... | 1.1 | 0.9 | 0.5 | .... | .... | 2.8 | 17 | 68 | 6.6 | 1.6 | 0.6 | 0.4 |
| 18.... | 1.1 | 0.9 | 0.5 | .... | .... | 3.0 | 16 | 50 | 7.2 | 2.0 | 0.5 | 1.0 |
| 19.... | 1.1 | 0.9 | 0.5 | .... | .... | 3.8 | 29 | 32 | 10 | 1.6 | 0.5 | 1.7 |
| 20.... | 1.1 | 0.9 | 0.5 | .... | .... | 5.4 | 40 | 25 | 9.5 | 1.2 | 0.8 | 1.1 |
| 21.... | 1.0 | 0.9 | 0.5 | .... | .... | 5.7 | 45 | 23 | 8.4 | 1.2 | 0.6 | 6.0 |
| 22.... | 1.0 | 1.1 | 0.5 | .... | .... | 9.5 | 45 | 25 | 8.9 | 1.1 | 0.8 | 6.3 |
| 23.... | 1.1 | 1.3 | 0.5 | .... | .... | 12 | 45 | 24 | 7.8 | 1.5 | 0.5 | 4.2 |
| 24.... | 1.1 | 1.2 | 0.5 | .... | .... | 14 | 33 | 29 | 7.2 | 1.5 | 1.5 | 3.4 |
| 25.... | 1.3 | 1.1 | 0.5 | .... | .... | 17 | 26 | 29 | 6.3 | 1.0 | 3.4 | 2.4 |
| 26.... | 1.9 | 1.1 | 0.5 | .... | .... | 16 | 26 | 35 | 6.3 | 0.7 | 5.1 | 1.9 |
| 27.... | 1.5 | 1.1 | 0.5 | .... | .... | 14 | 25 | 37 | 5.7 | 1.8 | 3.6 | 1.7 |
| 28.... | 1.3 | 1.1 | 0.5 | .... | .... | 9.5 | 22 | 34 | 5.1 | 2.1 | 2.2 | 1.5 |
| 29.... | 1.4 | 1.0 | 0.5 | .... | .... | 7.2 | 20 | 29 | 5.4 | 1.7 | 1.4 | 2.4 |
| 30.... | 1.3 | 1.0 | 0.5 | .... | .... | 6.3 | 17 | 27 | 6.0 | 1.5 | 1.0 | 4.5 |
| 31.... | 1.5 | .... | 0.5 | .... | .... | 6.9 | .... | 31 | .... | 1.4 | 0.7 | .... |
| Total | 34.7 | 35.1 | 22.7 | 15.5 | 20.3 | 155.8 | 576.9 | 1164 | 341.7 | 60.3 | 37.6 | 80.6 |
| Mean. | 1.12 | 1.17 | 0.73 | 0.5 | 0.7 | 5.03 | 19.2 | 37.5 | 11.4 | 1.95 | 1.21 | 2.69 |
| Max.. | 1.9 | 1.6 | 1.4 | .... | .... | 17 | 45 | 70 | 31 | 4.8 | 5.1 | 1.7 |
| Min.. | 0.7 | 0.8 | 0.5 | .... | .... | 0.8 | 4.2 | 17 | 5.1 | 0.7 | 0.5 | 0.2 |
| Acres-ft. | 69 | 70 | 45 | 31 | 40 | 309 | 1140 | 2310 | 678 | 120 | 75 | 160 |

Total run-off for water year 1939-40=5,050 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Middle Mancos River Near Mancos, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|--------|------|------|------|---------|-------|-------|------|------|------|-------|
| 1.... | 0.4 | 0.4 | .... | .... | .... | .... | 5.8 | 20 | 5.2 | 0.3 | 0.1 | 0.1 |
| 2.... | 0.5 | 0.3 | .... | .... | .... | .... | 5.8 | 21 | 4.2 | 0.2 | 0.1 | 0.1 |
| 3.... | 0.5 | 0.2 | .... | .... | .... | .... | 9.6 | 18 | 3.7 | 0.1 | 0.1 | 0 |
| 4.... | 0.2 | 0.2 | .... | .... | .... | .... | 11 | 17 | 3.5 | 0.3 | 0.2 | 0 |
| 5.... | 0.2 | 0.2 | .... | .... | .... | .... | 8.4 | 17 | 3.3 | 0.2 | 0.2 | 0 |
| 6.... | 0.2 | 0.2 | .... | .... | .... | .... | 7.7 | 19 | 3.2 | 0.2 | 0.2 | 0.2 |
| 7.... | 0.2 | 0.2 | .... | .... | .... | .... | 6.5 | 15 | 3.5 | 0.2 | 0.3 | 0.4 |
| 8.... | 0.3 | 0.2 | .... | .... | .... | .... | 9.0 | 14 | 3.7 | 0.3 | 0.2 | 0.3 |
| 9.... | 0.2 | 0.1 | .... | .... | .... | .... | 12 | 14 | 2.8 | 0.2 | 0.2 | 0.1 |
| 10.... | 0.1 | .... | .... | .... | .... | .... | 11 | 14 | 2.3 | 0.2 | 0.2 | 0.3 |
| 11.... | 0.1 | .... | .... | .... | .... | .... | 11 | 11 | 2.0 | 0.1 | 0.2 | 2.6 |
| 12.... | 0.2 | .... | .... | .... | .... | .... | 11 | 8.4 | 1.8 | 0.1 | 0.2 | 3.3 |
| 13.... | 0.2 | .... | .... | .... | .... | .... | 12 | 6.0 | 1.6 | 0.1 | 0.1 | 1.9 |
| 14.... | 0.2 | .... | .... | .... | .... | .... | 13 | 5.6 | 1.6 | 0.1 | 0.1 | 1.0 |
| 15.... | 0.2 | .... | .... | .... | .... | .... | 11 | 3.0 | 1.0 | 0.3 | 0.2 | 0.8 |
| 16.... | 0.3 | .... | .... | .... | .... | .... | 11 | 4.0 | 0.5 | 0.3 | 0.2 | 0.6 |
| 17.... | 0.3 | .... | .... | .... | .... | .... | 9.6 | 4.4 | 0.4 | 0.2 | 0.1 | 0.5 |
| 18.... | 0.4 | .... | .... | .... | .... | Mar. 20 | 9.6 | 4.0 | 0.4 | 0.2 | 0.1 | 0.3 |
| 19.... | 0.4 | .... | .... | .... | .... | to 31 | 13 | 4.0 | 0.4 | 0.2 | 0.2 | 0.2 |
| 20.... | 0.3 | .... | .... | .... | .... | 3.5 | 17 | 3.8 | 0.4 | 0.1 | 0.1 | 0.1 |
| 21.... | 0.1 | .... | .... | .... | .... | 3.5 | 19 | 3.5 | 0.5 | 0.1 | 0.1 | 0.1 |
| 22.... | 0.1 | .... | .... | .... | .... | 3.3 | 23 | 3.5 | 0.6 | 0.1 | 0.1 | 0.1 |
| 23.... | 0.2 | .... | .... | .... | .... | 4.4 | 22 | 3.7 | 0.6 | 0.1 | 0.1 | 0.1 |
| 24.... | 0.2 | .... | .... | .... | .... | 4.6 | 16 | 3.5 | 0.7 | 0.1 | 0 | 0.2 |
| 25.... | 0.2 | .... | .... | .... | .... | 6.2 | 15 | 5.0 | 0.6 | 0.1 | 0 | 0.3 |
| 26.... | 0.2 | .... | .... | .... | .... | 5.4 | 16 | 6.2 | 0.5 | 0.1 | 0 | 0.3 |
| 27.... | 0.2 | .... | .... | .... | .... | 4.0 | 18 | 5.8 | 0.4 | 0.1 | 0 | 0.3 |
| 28.... | 0.3 | .... | .... | .... | .... | 3.8 | 23 | 5.6 | 0.4 | 0.2 | 0.2 | 0.3 |
| 29.... | 0.3 | .... | .... | .... | .... | 3.7 | 21 | 5.2 | 0.3 | 0.3 | 0.2 | 0.2 |
| 30.... | 0.4 | Nov. 1 | .... | .... | .... | 3.7 | 19 | 5.2 | 0.3 | 0.2 | 0.2 | 0.2 |
| 31.... | 0.4 | to 9 | .... | .... | .... | 4.6 | .... | 5.4 | .... | 0.2 | 0.2 | .... |
| Total | 8.0 | 2.0 | .... | .... | .... | 50.7 | 397.0 | 275.8 | 50.4 | 5.5 | 4.4 | 14.9 |
| Mean.. | 0.26 | 0.22 | .... | .... | .... | 4.22 | 13.2 | 8.90 | 1.68 | 0.18 | 0.14 | 0.50 |
| Max.. | 0.5 | 0.4 | .... | .... | .... | 6.2 | 23 | 21 | 5.2 | 0.3 | 0.3 | 3.3 |
| Min.. | 0.1 | 0.1 | .... | .... | .... | 3.3 | 5.8 | 3.0 | 0.3 | 0.1 | 0 | 0 |
| Acre-ft. | 16 | 4 | .... | .... | .... | 101 | 787 | 547 | 100 | 11 | 9 | 30 |

Total run-off for period 1938-39=1,605 acre-feet.

Discharge of Middle Mancos River Near Mancos, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|------|------|------|------|------|-------|-------|-------|------|------|-------|
| 1.... | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 2.2 | 19 | 9.6 | 2.3 | 0.8 | 0.8 |
| 2.... | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 2.2 | 21 | 8.7 | 2.3 | 0.7 | 0.8 |
| 3.... | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 2.3 | 27 | 7.9 | 2.0 | 0.5 | 0.8 |
| 4.... | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 2.3 | 36 | 6.5 | 1.9 | 0.5 | 0.7 |
| 5.... | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 3.5 | 41 | 5.4 | 1.9 | 0.5 | 0.6 |
| 6.... | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 3.5 | 36 | 5.2 | 2.3 | 0.6 | 0.6 |
| 7.... | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 3.2 | 37 | 4.6 | 1.9 | 1.0 | 0.5 |
| 8.... | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 3.3 | 29 | 4.0 | 1.8 | 0.8 | 0.4 |
| 9.... | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 3.7 | 32 | 3.5 | 1.4 | 0.7 | 0.4 |
| 10.... | 0.3 | 0.3 | 0.1 | 0.1 | 0.1 | 0.2 | 4.0 | 27 | 2.8 | 1.3 | 0.6 | 0.3 |
| 11.... | 0.4 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 3.8 | 24 | 3.8 | 1.1 | 0.6 | 0.3 |
| 12.... | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 6.0 | 28 | 6.5 | 1.1 | 0.6 | 0.3 |
| 13.... | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 9.3 | 28 | 6.7 | 1.1 | 0.6 | 0.4 |
| 14.... | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 15 | 31 | 5.8 | 1.0 | 0.5 | 0.3 |
| 15.... | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 17 | 29 | 4.4 | 1.0 | 0.4 | 0.3 |
| 16.... | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 13 | 25 | 4.4 | 1.0 | 0.5 | 0.3 |
| 17.... | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 11 | 30 | 6.7 | 2.3 | 0.5 | 0.3 |
| 18.... | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 12 | 28 | 6.5 | 1.9 | 0.5 | 0.6 |
| 19.... | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.4 | 19 | 19 | 6.5 | 1.5 | 0.5 | 1.6 |
| 20.... | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.4 | 27 | 14 | 6.2 | 1.3 | 0.4 | 1.0 |
| 21.... | 0.1 | 0 | 0.1 | 0.1 | 0.1 | 0.5 | 31 | 11 | 5.6 | 1.1 | 0.4 | 0.4 |
| 22.... | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1.0 | 32 | 11 | 5.2 | 1.0 | 0.8 | 0.5 |
| 23.... | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1.5 | 34 | 10 | 5.0 | 0.9 | 0.8 | 0.3 |
| 24.... | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 2.0 | 34 | 9.6 | 4.4 | 1.0 | 1.4 | 0.3 |
| 25.... | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 2.6 | 28 | 8.7 | 3.8 | 1.0 | 1.5 | 0.3 |
| 26.... | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 2.6 | 31 | 8.7 | 3.5 | 0.6 | 2.2 | 0.2 |
| 27.... | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 2.6 | 31 | 10 | 3.2 | 1.0 | 1.4 | 0.2 |
| 28.... | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 2.5 | 25 | 11 | 2.6 | 0.9 | 1.1 | 0.2 |
| 29.... | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 1.9 | 20 | 11 | 2.5 | 0.7 | 1.0 | 0.3 |
| 30.... | 0.1 | 0.2 | 0.1 | 0.1 | .... | 1.8 | 17 | 10 | 2.5 | 0.7 | 0.8 | 0.8 |
| 31.... | 0.1 | .... | 0.1 | 0.1 | .... | 2.2 | .... | 9.8 | .... | 0.7 | 0.8 | .... |
| Total | 5.9 | 3.80 | 3.40 | 3.1 | 2.9 | 25.4 | 446.3 | 671.8 | 154.0 | 42.0 | 24.0 | 14.8 |
| Mean. | 0.19 | 0.13 | 0.11 | 0.1 | 0.1 | 0.82 | 14.9 | 21.7 | 5.13 | 1.35 | 0.77 | 0.49 |
| Max.. | 0.4 | 0.3 | 0.2 | .... | .... | 2.6 | 34 | 41 | 9.6 | 2.3 | 2.2 | 1.6 |
| Min.. | 0.1 | 0 | 0.1 | .... | .... | 0.1 | 2.2 | 8.7 | 2.5 | 0.6 | 0.4 | 0.2 |
| Acre-ft. | 12 | 7.5 | 6.7 | 6.1 | 5.8 | 50 | 885 | 1330 | 305 | 83 | 48 | 29 |

Total run-off for water year 1939-40=2,770 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of West Mancos River Near Mancos, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| 1..... | 6.5 | 7.8 | ..... | ..... | ..... | 3.0 | 32 | 111 | 72 | 10 | 7.2 | 6.3 |
| 2..... | 6.7 | 8.5 | ..... | ..... | ..... | 3.0 | 32 | 113 | 67 | 9.9 | 6.3 | 5.4 |
| 3..... | 7.2 | 8.3 | ..... | ..... | ..... | 3.0 | 50 | 99 | 68 | 11 | 5.6 | 4.7 |
| 4..... | 6.9 | 8.3 | ..... | ..... | ..... | 3.0 | 55 | 91 | 73 | 10 | 5.6 | 4.3 |
| 5..... | 7.6 | 8.5 | ..... | ..... | ..... | 3.0 | 42 | 103 | 67 | 9.0 | 5.8 | 5.4 |
| 6..... | 8.3 | 8.3 | ..... | ..... | ..... | 3.0 | 41 | 111 | 55 | 8.8 | 6.7 | 14 |
| 7..... | 8.3 | 7.2 | ..... | ..... | ..... | 3.0 | 35 | 90 | 51 | 8.3 | 7.2 | 24 |
| 8..... | 12 | 7.0 | ..... | ..... | ..... | 3.0 | 40 | 91 | 47 | 7.6 | 6.3 | 26 |
| 9..... | 11 | 7.0 | ..... | ..... | ..... | 3.0 | 50 | 107 | 46 | 7.4 | 5.8 | 20 |
| 10..... | 10 | 7.0 | ..... | ..... | ..... | 3.0 | 47 | 117 | 45 | 7.6 | 5.2 | 20 |
| 11..... | 11 | 7.0 | ..... | ..... | ..... | 3.0 | 40 | 117 | 45 | 7.2 | 4.5 | 49 |
| 12..... | 10 | 7.0 | ..... | ..... | ..... | 3.0 | 46 | 111 | 41 | 6.5 | 4.1 | 53 |
| 13..... | 10 | 7.0 | ..... | *3.0 | ..... | 4.0 | 48 | 99 | 40 | 6.3 | 3.9 | 38 |
| 14..... | 10 | 7.0 | ..... | ..... | ..... | 4.0 | 44 | 93 | 37 | 6.5 | 4.1 | 26 |
| 15..... | 11 | 7.0 | ..... | ..... | ..... | 4.0 | 36 | 90 | 32 | 7.2 | 4.1 | 21 |
| 16..... | 11 | 6.5 | ..... | ..... | ..... | 5 | 32 | 78 | 26 | 6.7 | 3.5 | 17 |
| 17..... | 12 | 6.5 | ..... | ..... | ..... | 7 | 33 | 67 | 24 | 5.8 | 3.1 | 15 |
| 18..... | 11 | 6.5 | ..... | ..... | ..... | 9 | 36 | 67 | 20 | 5.6 | 2.7 | 13 |
| 19..... | 10 | 6.5 | ..... | ..... | ..... | 12 | 47 | 88 | 17 | 5.2 | 2.7 | 12 |
| 20..... | 10 | 6.5 | ..... | ..... | ..... | 16 | 56 | 99 | 16 | 4.5 | 2.5 | 12 |
| 21..... | 9.9 | 6.5 | ..... | ..... | ..... | 20 | 76 | 97 | 14 | 4.3 | 2.9 | 11 |
| 22..... | 9.6 | 6.5 | ..... | ..... | ..... | 30 | 93 | 101 | 14 | 4.5 | 3.3 | 10 |
| 23..... | 9.3 | 6.5 | ..... | ..... | ..... | 39 | 88 | 95 | 14 | 4.3 | 3.5 | 9.9 |
| 24..... | 8.8 | 6.5 | ..... | ..... | ..... | 35 | 68 | 83 | 13 | 4.1 | 3.1 | 9.3 |
| 25..... | 8.3 | 6.5 | ..... | ..... | ..... | 32 | 68 | 66 | 12 | 4.1 | 3.1 | 10 |
| 26..... | 8.1 | 6.5 | ..... | ..... | ..... | 29 | 79 | 61 | 11 | 4.3 | 3.1 | 11 |
| 27..... | 8.1 | 6.5 | ..... | ..... | ..... | 24 | 86 | 68 | 11 | 4.3 | 4.1 | 14 |
| 28..... | 8.1 | 6.5 | ..... | ..... | ..... | 22 | 103 | 66 | 11 | 8.1 | 6.5 | 13 |
| 29..... | 7.8 | 6.5 | ..... | ..... | ..... | 21 | 120 | 72 | 11 | 12 | 7.6 | 12 |
| 30..... | 7.8 | 6.5 | ..... | ..... | ..... | 20 | 113 | 70 | 11 | 11 | 6.7 | 11 |
| 31..... | 7.8 | 6.5 | ..... | ..... | ..... | 29 | ..... | 70 | ..... | 8.5 | 7.2 | ..... |
| Total | 284.1 | 210.4 | 155 | 93 | 84 | 398 | 1736 | 2791 | 1011 | 220.6 | 147.8 | 497.3 |
| Mean | 9.16 | 7.01 | 5.0 | 3.0 | 3.0 | 12.8 | 57.9 | 90.0 | 33.7 | 7.12 | 4.77 | 16.6 |
| Max. | 12 | 8.5 | ..... | ..... | ..... | 39 | 120 | 117 | 73 | 12 | 7.6 | 5.3 |
| Min. | 6.5 | ..... | ..... | ..... | ..... | ..... | 32 | 61 | 11 | 4.1 | 2.5 | 4.3 |
| Acre-ft. | 564 | 417 | 307 | 184 | 167 | 789 | 3440 | 5540 | 2010 | 438 | 293 | 986 |

Total run-off for water year 1938-39=15,140 acre-feet.

*Discharge measurement.

Discharge of West Mancos River Near Mancos, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|--------|-------|-------|---------|-------|------|-------|-------|-------|-------|
| 1..... | 10 | 5.6 | 5.2 | ..... | ..... | ..... | 17 | 78 | 153 | 28 | 7.6 | 7.4 |
| 2..... | 9.3 | 5.6 | 5.6 | ..... | ..... | ..... | 16 | 99 | 146 | 25 | 7.2 | 9.3 |
| 3..... | 8.8 | 5.6 | 5.2 | ..... | ..... | ..... | 15 | 117 | 133 | 23 | 6.0 | 8.5 |
| 4..... | 8.3 | 5.2 | 5.4 | ..... | ..... | ..... | 18 | 142 | 131 | 20 | 5.2 | 8.1 |
| 5..... | 8.1 | 5.2 | 5.2 | ..... | ..... | ..... | 24 | 142 | 117 | 20 | 4.9 | 7.4 |
| 6..... | 7.4 | 5.2 | 4.1 | ..... | ..... | ..... | 21 | 140 | 113 | 18 | 5.2 | 6.9 |
| 7..... | 7.4 | 5.2 | 4.5 | ..... | ..... | ..... | 21 | 158 | 105 | 17 | 6.7 | 6.5 |
| 8..... | 8.1 | 4.9 | 4.5 | ..... | ..... | ..... | 19 | 144 | 101 | 16 | 6.0 | 5.8 |
| 9..... | 8.3 | 5.4 | 3.9 | ..... | ..... | ..... | 19 | 142 | 93 | 16 | 5.4 | 5.6 |
| 10..... | 7.6 | 5.2 | 3.9 | ..... | ..... | ..... | 20 | 142 | 83 | 15 | 4.9 | 5.8 |
| 11..... | 7.4 | 4.7 | 4.3 | ..... | ..... | ..... | 21 | 137 | 84 | 14 | 5.8 | 5.6 |
| 12..... | 7.2 | 4.7 | 3.7 | ..... | ..... | ..... | 26 | 137 | 88 | 13 | 5.6 | 5.6 |
| 13..... | 6.9 | 4.7 | 4.1 | ..... | ..... | ..... | 37 | 137 | 90 | 12 | 5.2 | 6.9 |
| 14..... | 6.5 | 4.7 | 4.1 | ..... | ..... | Mar. 16 | 56 | 165 | 91 | 12 | 4.7 | 6.9 |
| 15..... | 6.5 | 4.5 | 2.9 | ..... | ..... | to 31 | 68 | 170 | 84 | 12 | 4.3 | 6.5 |
| 16..... | 6.5 | 4.5 | ..... | ..... | ..... | 7.6 | 57 | 175 | 74 | 12 | 4.3 | 6.0 |
| 17..... | 6.7 | 4.5 | ..... | ..... | ..... | 7.4 | 45 | 208 | 70 | 17 | 4.1 | 6.3 |
| 18..... | 6.3 | 4.5 | ..... | ..... | ..... | 8.1 | 47 | 182 | 66 | 15 | 4.3 | 5.4 |
| 19..... | 6.3 | 4.7 | ..... | ..... | ..... | 9.0 | 76 | 142 | 62 | 13 | 4.3 | 6.8 |
| 20..... | 6.3 | 4.5 | ..... | ..... | ..... | 10 | 111 | 122 | 59 | 12 | 5.2 | 5.4 |
| 21..... | 6.3 | 4.5 | ..... | ..... | ..... | 12 | 126 | 109 | 54 | 11 | 6.3 | 3.4 |
| 22..... | 5.8 | 4.1 | ..... | ..... | ..... | 20 | 124 | 111 | 51 | 10 | 10 | 3.7 |
| 23..... | 5.6 | 4.1 | ..... | ..... | ..... | 19 | 126 | 105 | 47 | 11 | 10 | 3.3 |
| 24..... | 5.6 | 4.1 | ..... | ..... | ..... | 20 | 126 | 111 | 42 | 11 | 18 | 2.6 |
| 25..... | 6.0 | 4.1 | ..... | ..... | ..... | 23 | 120 | 111 | 38 | 10 | 2.5 | 2.0 |
| 26..... | 8.1 | 3.7 | ..... | ..... | ..... | 26 | 128 | 126 | 35 | 8.8 | 2.6 | 1.7 |
| 27..... | 6.3 | 4.1 | ..... | ..... | ..... | 26 | 120 | 144 | 34 | 12 | 1.6 | 1.7 |
| 28..... | 5.6 | 4.1 | ..... | ..... | ..... | 24 | 91 | 144 | 29 | 12 | 1.2 | 1.5 |
| 29..... | 5.4 | 4.3 | ..... | ..... | ..... | 18 | 81 | 135 | 28 | 11 | 9.9 | 2.0 |
| 30..... | 5.4 | 4.5 | Dec. 1 | ..... | ..... | 17 | 70 | 140 | 33 | 9.3 | 8.3 | 3.3 |
| 31..... | 5.8 | ..... | to 15 | ..... | ..... | 19 | ..... | 149 | ..... | 8.5 | 7.6 | ..... |
| Total | 215.8 | 140.7 | 66.6 | ..... | ..... | 266.1 | 1849 | 4264 | 2334 | 444.6 | 256.0 | 543.1 |
| Mean | 6.96 | 4.69 | 4.44 | ..... | ..... | 16.6 | 61.6 | 138 | 77.8 | 14.3 | 8.26 | 18.1 |
| Max. | 10 | 5.6 | 5.6 | ..... | ..... | 26 | 128 | 208 | 153 | 28 | 2.6 | 6.8 |
| Min. | 5.4 | 3.7 | 2.9 | ..... | ..... | 7.4 | 15 | 78 | 28 | 8.5 | 4.1 | 5.6 |
| Acre-ft. | 428 | 279 | 132 | ..... | ..... | 528 | 3670 | 8460 | 4630 | 882 | 508 | 1080 |

Total run-off for period=20,600 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Mancos River Near Towaoc, Colo., for Year Ending Sept. 30, 1939.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| 1.... | 9.5 | 6.4 | ..... | ..... | 8.0 | 17 | 83 | 72 | 0.2 | 0 | 0 | 0 |
| 2.... | 8.5 | 6.7 | ..... | ..... | 8.0 | 16 | 80 | 70 | 0 | 0 | 0 | 0 |
| 3.... | 11 | 7.5 | ..... | ..... | 8.0 | 17 | 83 | 72 | 1.2 | 0 | 0 | 0 |
| 4.... | 13 | 8.5 | ..... | ..... | 8.0 | 18 | 147 | 62 | 0 | 0 | 0 | 0 |
| 5.... | 10 | 6.7 | ..... | ..... | 8.0 | 17 | 141 | 54 | 0 | 0 | 0 | 0 |
| 6.... | 12 | 5.8 | ..... | ..... | 10 | 13 | 99 | 49 | 0 | 0 | 0 | 0 |
| 7.... | 10 | 5.2 | ..... | ..... | 10 | 16 | 84 | 51 | 0 | 0 | 0 | 0 |
| 8.... | 228 | 4.3 | ..... | ..... | 10 | 19 | 77 | 43 | 0 | 0 | 0 | 0 |
| 9.... | 51 | 4.9 | ..... | ..... | 10 | 24 | 81 | 37 | 0 | 0 | 0 | 9.0 |
| 10.... | 22 | 5.8 | ..... | ..... | 10 | 29 | 89 | 30 | 0 | 0 | 0 | 9.4 |
| 11.... | 14 | 5.8 | ..... | ..... | 10 | 32 | 81 | 35 | 0 | 0 | 0 | 242 |
| 12.... | 11 | 5.2 | ..... | ..... | 10 | 32 | 74 | 35 | 0 | 0 | 0 | 7.4 |
| 13.... | 11 | 4.9 | ..... | *8.4 | 10 | 66 | 71 | 41 | 0 | 0 | 0 | 31 |
| 14.... | 12 | 3.8 | ..... | ..... | 10 | 123 | 66 | 24 | 0 | 0 | 0 | 16 |
| 15.... | 11 | 2.8 | ..... | ..... | 10 | 143 | 61 | 23 | 0 | 0 | 0 | 7.0 |
| 16.... | 12 | 4.3 | ..... | ..... | 12 | 125 | 55 | 14 | 0 | 0 | 0 | 4.9 |
| 17.... | 7.0 | 4.9 | ..... | ..... | 12 | 147 | 47 | 12 | 0 | 0 | 0 | 3.2 |
| 18.... | 8.0 | 5.8 | ..... | ..... | 12 | 139 | 46 | 6.7 | 0 | 0 | 0 | 2.4 |
| 19.... | 8.0 | 4.6 | ..... | ..... | 12 | 117 | 46 | 3.2 | 0 | 0 | 0 | 1.6 |
| 20.... | 7.5 | 4.3 | ..... | ..... | 12 | 117 | 54 | 2.2 | 0 | 0 | 0 | 0.6 |
| 21.... | 8.5 | 5.8 | ..... | ..... | 12 | 119 | 59 | 1.4 | 0 | 0 | 0 | 0 |
| 22.... | 7.5 | 6.4 | ..... | ..... | 12 | 127 | 75 | 3.8 | 0 | 0 | 0 | 0 |
| 23.... | 7.5 | 5.8 | *16 | ..... | 16 | 120 | 85 | 4.9 | 0 | 0 | 0 | 0 |
| 24.... | 7.0 | 3.4 | ..... | ..... | 18 | 99 | 81 | 4.0 | 0 | 0 | 0 | 0 |
| 25.... | 6.4 | 4.3 | ..... | ..... | 18 | 92 | 68 | 7.5 | 0 | 0 | 0 | 0 |
| 26.... | 6.4 | 3.4 | ..... | ..... | 20 | 80 | 66 | 3.4 | 0 | 0 | 0 | 3.6 |
| 27.... | 6.1 | 4.6 | ..... | ..... | 23 | 77 | 67 | 3.2 | 0 | 0 | 0 | 4.9 |
| 28.... | 5.8 | 3.8 | ..... | ..... | 17 | 80 | 65 | 3.2 | 0 | 0 | 0 | 5.8 |
| 29.... | 5.5 | 3.8 | ..... | ..... | ..... | 76 | 67 | 3.2 | 0 | 0 | 0 | 2.2 |
| 30.... | 6.1 | 3.8 | ..... | ..... | ..... | 77 | 77 | 3.6 | 0 | 0 | 0 | 1.2 |
| 31.... | 5.8 | ..... | ..... | ..... | ..... | 84 | ..... | 3.8 | ..... | ..... | ..... | ..... |
| Total | 549.1 | 153.3 | 341 | 248 | 336 | 2271 | 2275 | 778.1 | 1.4 | 0 | 0 | 503.4 |
| Mean. | 17.7 | 5.11 | 11 | 8.0 | 12.0 | 73.3 | 75.8 | 25.1 | 0.05 | 0 | 0 | 16.8 |
| Max. | 228 | 8.5 | ..... | ..... | ..... | 147 | 147 | 72 | 1.2 | 0 | 0 | 242 |
| Min. | 5.5 | 2.8 | ..... | ..... | ..... | 13 | 46 | 1.4 | 0 | 0 | 0 | 0 |
| Acre-ft. | 1090 | 304 | 676 | 492 | 666 | 4500 | 4510 | 1540 | 3 | 0 | 0 | 998 |

Total run-off for water year 1938-39=14,779 acre-feet.

*Discharge measurement.

Discharge of Mancos River Near Towaoc, Colorado, for Year Ending Sept. 30, 1940.

| Day | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|----------|------|-------|------|-------|-------|------|-------|------|-------|-------|-------|--------|
| 1.... | 1.0 | 3.5 | 3.4 | 3.0 | 6.0 | 41 | 27 | 45 | 58 | 0 | 0 | 4.6 |
| 2.... | 0.6 | 3.8 | 3.2 | 4.6 | 7.2 | 36 | 30 | 40 | 58 | 0 | 0 | 4.6 |
| 3.... | 0 | 3.8 | 3.0 | 6.4 | 6.4 | 33 | 30 | 48 | 58 | 0 | 0 | 4.6 |
| 4.... | 0 | 3.8 | 3.2 | 5.5 | 5.9 | 33 | 36 | 90 | 46 | 0 | 0 | 6.0 |
| 5.... | 0 | 3.8 | 3.2 | 4.9 | 5.4 | 32 | 40 | 160 | 39 | 0 | 0 | 8.2 |
| 6.... | 0.6 | 4.0 | 3.2 | 4.0 | 4.5 | 39 | 45 | 120 | 28 | 0 | 0 | 6.0 |
| 7.... | 1.0 | 4.0 | 3.2 | 2.0 | 5.1 | 30 | 46 | 130 | 23 | 0 | 2.4 | 4.0 |
| 8.... | 1.6 | 4.3 | 3.2 | 3.0 | 4.8 | 26 | 40 | 140 | 21 | 0 | 35 | 1.0 |
| 9.... | 3.0 | 4.0 | 3.2 | 3.6 | 4.6 | 38 | 38 | 145 | 17 | 0 | 13 | 0.1 |
| 10.... | 4.9 | 4.0 | 3.0 | 4.6 | 5.5 | 49 | 36 | 145 | 15 | 0 | 4.4 | 0 |
| 11.... | 3.2 | 4.6 | 3.2 | 4.0 | 6.1 | 45 | 38 | 127 | 14 | 0 | 2.4 | 0 |
| 12.... | 2.2 | 4.9 | 3.6 | 5.5 | 6.4 | 36 | 40 | 122 | 12 | 0 | .1 | 0 |
| 13.... | 1.6 | 4.9 | 3.0 | 6.1 | 6.1 | 22 | 54 | 118 | 10 | 0 | 0 | 0 |
| 14.... | 2.0 | 5.2 | 3.0 | 3.6 | 5.8 | 14 | 78 | 110 | 9.9 | 0 | 0 | 0 |
| 15.... | 2.0 | 4.6 | 2.4 | 2.6 | 7.0 | 16 | 114 | 117 | 8.2 | 0 | 0 | 0 |
| 16.... | 2.0 | 4.0 | 2.6 | 4.2 | 7.0 | 19 | 118 | 118 | 7.1 | 0 | 0 | 0 |
| 17.... | 2.0 | 4.0 | 3.6 | 4.2 | 5.5 | 22 | 90 | 118 | 5.4 | 0 | 0 | 0 |
| 18.... | 1.0 | 3.4 | 4.0 | 4.5 | 3.4 | 24 | 67 | 178 | 5.0 | 0 | 0 | 35 |
| 19.... | 1.0 | 3.2 | 4.6 | 4.2 | 5.5 | 22 | 78 | 208 | 3.6 | 0 | 0 | 96 |
| 20.... | 1.2 | 3.4 | 2.6 | 4.3 | 5.5 | 23 | 125 | 125 | 2.4 | 0 | 0 | 73 |
| 21.... | 1.2 | 3.6 | 1.6 | 5.0 | 7.0 | 23 | 168 | 90 | 2.4 | 0 | 18 | 46 |
| 22.... | 1.2 | 3.6 | 1.4 | 4.0 | 7.0 | 24 | 150 | 84 | 1.2 | 0 | 16 | 857 |
| 23.... | 1.2 | 3.4 | 2.4 | 5.0 | 7.0 | 28 | 170 | 72 | 0.1 | 0 | 11 | 53 |
| 24.... | 1.2 | 3.4 | 2.4 | 5.4 | 7.0 | 31 | 145 | 58 | 0.1 | 0 | 5.0 | 35 |
| 25.... | 1.5 | 3.4 | 4.0 | 4.9 | 9.5 | 32 | 100 | 58 | 0 | 0 | 11.4 | 26 |
| 26.... | 1.5 | 3.4 | 3.6 | 4.8 | 12 | 34 | 75 | 54 | 0 | 0 | 32 | 25 |
| 27.... | 1.8 | 3.6 | 2.2 | 4.7 | 20 | 32 | 80 | 60 | 0 | 174 | 24 | 30 |
| 28.... | 2.0 | 3.6 | 3.0 | 4.4 | 25 | 36 | 88 | 64 | 0 | 8.8 | 13 | 22 |
| 29.... | 2.5 | 4.0 | 2.6 | 5.1 | 31 | 35 | 64 | 60 | 0 | 2.0 | 11 | 28 |
| 30.... | 3.0 | 3.6 | 3.0 | 5.2 | ..... | 30 | 52 | 56 | 0 | 0.1 | 8.2 | 56 |
| 31.... | 3.5 | ..... | 3.4 | 5.5 | ..... | 26 | ..... | 53 | ..... | 0 | 6.4 | ..... |
| Total | 51.5 | 116.8 | 94.0 | 138.8 | 239.2 | 931 | 2262 | 3113 | 444.4 | 184.9 | 315.9 | 1420.5 |
| Mean. | 1.66 | 3.89 | 3.03 | 4.48 | 8.25 | 30.0 | 75.4 | 100 | 14.8 | 5.96 | 10.2 | 47.4 |
| Max. | 4.9 | 5.2 | 4.6 | 6.4 | 31 | 49 | 170 | 208 | 58 | 174 | 114 | 857 |
| Min. | 0 | 3.2 | 1.4 | 2.0 | 3.4 | 14 | 27 | 40 | 0 | 0 | 0 | 0 |
| Acre-ft. | 102 | 232 | 186 | 275 | 474 | 1850 | 4490 | 6170 | 881 | 367 | 627 | 2820 |

Total run-off for water year 1939-40=18,470 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

CHAPTER XI.
ANNUAL REPORTS
OF
IRRIGATION DIVISION
ENGINEERS
FOR
1939-1940

ANNUAL REPORT—IRRIGATION DIVISION NO. 1
FOR THE YEAR 1939

November 15, 1939.

Mr. M. C. Hinderlider
State Engineer
State Capitol Building
Denver, Colorado

Dear Sir:

Herein is presented a general summary of the administrative activities with which this office is charged, together with tabulated reports of the several water districts in Division No. 1, and other pertinent data, for the year 1939.

During the winter of 1938-1939, no administrative order was in effect in the Division, which condition prevailed until May 3, 1939, at which time water was demanded in Water District No. 1 for the Riverside Irrigation District, for direct irrigation, the call being based upon priority of date May 31, 1907. The use of water until May 3rd was unrestricted, with but little being used, due to the wet fall weather which gave the entire division a very good irrigation and raised the stages of most reservoirs to the safe limit.

There were 503,729 acre-feet of water in storage in Division No. 1 on November 1, 1938, as compared with 194,280 acre-feet on November 1, 1939, of which amounts the City of Denver owns approximately 160,000 acre-feet for municipal uses.

After May 3rd, the administrative orders were changed often, with a call for priority of date January 18, 1879, prevailing on May 15th, and after several more changes, the order was October 5, 1871 on June 10th, at which time the streams were very low and very unusual conditions were experienced since the streams are normally expected to reach peak flow during June. The very low stage of all streams was caused principally by a sub-normal snow fall, together with a deficient water content, and this condition was augmented by the lack of seasonal precipitation.

The lowest administrative order on the South Platte River during the summer was for priority of date May 15, 1863, although several districts were limited to dates senior to the general order because of deficient supply within the district so affected.

Direct irrigation has continued all fall, and at this time there is little relief in sight and the outlook for the coming season is not encouraging, as all streams are at extremely low stage, as is the reservoir storage and snow supply.

The temperatures have been generally above normal, while precipitation figures show a deficiency of more than six inches since January 1, 1939.

High temperatures early in March caused many streams to rise abnormally and some damage resulted from flood waters. The most serious damage occurred on Box Elder Creek, where three reservoirs were lost, these being the Moonshine, Ireland Nos. 1 and 5. The Box Elder Creek flood is covered in detail by the writer in a separate report.

The shortage of water is reflected by the crop production, which probably does not average more than 70 per cent normal in the Division, and in some sections may be as low as 50 per cent. Had it not been for the unusually large amount of storage water available, there is little doubt that a nearly complete crop failure would have resulted.

The shortage of snow and water content thereof is shown by the comparatively light delivery of the transmountain diversion ditches in Division No. 1, which diverted an aggregate of 82,425 acre-feet in 1939, as compared with 115,883 acre-feet in 1938.

Practically all of the ditches in District No. 48 were equipped with Parshall rating flumes and new headgates before the beginning of the irrigation season. This required considerable time and attention of the administrative officers, and it became necessary to employ additional deputies to assist in the administration of this district during the season.

Many demands were made upon this office during the past season for more efficient administration, and many requests were denied, due to lack of funds which precluded the employment of sufficient personnel to adequately cope with conditions such as an extremely dry season creates. However, the decretal orders have been as justly administered as our ability and personnel would permit.

Numerous minor controversies came up during the season, which were generally settled amicably. Due to the protracted drought, Water District No. 23 was particularly hard pressed for water, there being very little storage water available to that district, and the services of a Special Deputy to assist the Water Commissioner were required until late in the fall, and while there were several violations of the water orders, the cooperation of most users was prevalent.

I wish to take this opportunity to express my appreciation for the assistance of the personnel of the State Engineer's Office, and the general spirit of cooperation of the Water Commissioners and their deputies in the various water districts of this Division.

Very truly yours,

J. E. WHITTEN,

Special Deputy State Engineer, South Platte.

MOFFAT TUNNEL SUMMARY

| Year | Diverted | | Eldorado | To So. | Clear | 11-Mile |
|------|------------------------|-----------------------------|---|-----------------------------|-----------------------------|--|
| | East Portal Ac. Ft. | Eldorado Springs Ac. Ft. | E. Portal Equiv. Less 2½ % Ac. Ft. | Boulder Creek Ac. Ft. | Creek Credits Ac. Ft. | Clear Cr. Equiv. Plus 5 % Ac. Ft. |
| 1937 | 21,673 | 17,048 | 21,131 | 4,083 | 12,787 | 13,426 |
| 1938 | 44,201 | 36,618 | 43,652 | 4,860 | 16,466 | 17,289 |
| 1939 | 31,134 | 30,121 | 30,356 | 85 | 10,065 | 10,568 |

| Year | Stored in | | Divert. | Stored | Other | |
|------|--------------------------------|---------------------------------|----------------------------------|----------------------------------|---------------------------------|----------------------------------|
| | 11-Mile Exchange Ac. Ft. | Cheesman Exchange Ac. Ft. | at Intake Exch. Ac. Ft. | in Ralston Res. Ac. Ft. | Sales or Exchange Ac. Ft. | To |
| 1937 | 8,106 | 3,590 | 442 | 1,126 | 4,004 | So. Boulder Ralston Creeks |
| 1938 | 9,372 | 6,989 | 0 | 20,152 | 0 | |
| 1939 | 4,375 | 0 | 3,778 | 20,056 | 150 | Erie and Louisville |

STATE ENGINEER'S OFFICE
TRANSMOUNTAIN DIVERSIONS

1939

IRRIGATION DIVISION NO. 1

J. E. WHITTEN, Special Deputy

| Name of Diversion | Source | From Dist. | To Dist. | First Day | Last Day | Ac. Ft. Total |
|-----------------------------|---|------------|----------|-----------|----------|---------------|
| Moffat Tunnel— | | | | | | |
| East Portal..... | Colorado River... | 51 | 6 | May 4 | Nov. 15 | 31,134 |
| Grand River Ditch..... | Colorado River... | 51 | 3 | May 5 | Sept. 9 | 18,561 |
| Laramie Poudre Tunnel | Laramie River... | 48 | 3 | May 2 | Aug. 15 | 13,063 |
| Skyline Ditch..... | Laramie River... | 48 | 3 | Apr. 29 | Sept. 23 | 14,860 |
| Deadman Ditch.... | Deadman Creek, trib. Laramie River | 48 | 3 | May 9 | June 18 | 874 |
| East Hoosier Pass..... | Blue River..... | 36 | 23 | May 15 | June 29 | 320 |
| West Hoosier Pass..... | Blue River..... | 36 | 23 | May 15 | June 17 | 158 |
| Berthoud Pass Ditch | Colorado River... | 51 | 7 | June 3 | Aug. 25 | 883 |
| Cameron Pass Ditch | North Platte River | 47 | 3 | May 19 | July 9 | 255 |
| Michigan Ditch.... | North Platte River | 47 | 3 | May 15 | Aug. 5 | 2,285 |
| Boreas Pass Ditch.. | Blue River, trib. of Colorado River | 36 | 23 | July 17 | Aug. 5 | 32 |
| Total | | | | | | 82,425 |

CROP REPORT
IRRIGATION DIVISION NO. 1

1939

| District No. | First Day Water Used from Natural Stream | Last Day Water Used from Natural Stream | No. Acre Ft. Used for Season | Total Acres That Can Be Irrigated | Alfalfa |
|--------------|--|---|------------------------------|-----------------------------------|---------|
| 1 | 11- 1-38 | 10-31-39 | 248,741 | 189,190 | 36,322 |
| 2 | 11- 1-38 | 10-31-39 | 357,054 | 224,510 | 40,235 |
| 3 | 4-23-39 | 10-31-39 | 341,566 | 389,160 | 54,415 |
| 4 | 4-22-39 | 10-10-39 | 162,807 | 141,240 | 40,500 |
| 5 | 12- 2-38 | 10-31-39 | 96,482 | 106,950 | 28,735 |
| 5 | 5- 1-39 | 10- 9-39 | 92,004 | 195,335 | 29,240 |
| 7 | 4- 1-39 | 10-31-39 | 129,072 | 119,005 | 13,666 |
| 8 | 11- 1-38 | 10-31-39 | 91,840 | 110,257 | 11,176 |
| 9 | 11- 1-38 | 10-31-39 | 24,974 | 14,942 | 3,060 |
| 23 | 3-10-39 | 10-31-39 | ..... | 48,000 | 0 |
| 47 | 4-20-39 | 10- 1-39 | 252,000 | 70,000 | 0 |
| 48 | 4-22-39 | 6-19-39 | 22,851 | 5,340 | 0 |
| 64 | 11- 1-38 | 10-31-39 | 255,315 | 176,212 | 27,432 |
| 65 | 4-15-39 | 11-10-39 | 13,430 | 8,441† | 667 |
| Totals | | | 2,088,136 | 1,798,582 | 285,448 |

†5,000 ± acres in Nebraska.

| District No. | Natural Grasses | Cereals | Orchards | Market Gardens | Potatoes |
|--------------|-----------------|---------|----------|----------------|----------|
| 1 | 24,772 | 59,995 | 154 | 116 | 1,332 |
| 2 | 10,972 | 82,398 | 302 | 9,900 | 8,620 |
| 3 | 4,642 | 68,848 | 1,759 | 3,344 | 28,070 |
| 4 | 590 | 69,100 | 1,560 | 320 | 4,300 |
| 5 | 5,715 | 37,105 | 625 | 625 | 800 |
| 15 | 63,165 | 60,265 | 623 | 1,089 | 90 |
| 7 | 1,664 | 49,791 | 3,018 | 13,720 | 247 |
| 8 | 2,046 | 13,837 | 135 | 1,261 | 20 |
| 9 | 2,800 | 6,069 | 81 | 204 | 1,973 |
| 23 | 37,000 | 0 | 0 | 0 | 0 |
| 47 | 66,109 | 0 | 0 | 0 | 0 |
| 48 | 4,176* | 0 | 0 | 0 | 0 |
| 64 | 30,269 | 46,540 | 160 | 786 | 2,458 |
| 65 | 293 | 183 | 54 | 52 | 37 |
| Totals | 254,213 | 494,131 | 8,471 | 31,417 | 47,947 |

*2,730 tons of hay measured.

| District No. | Sugar Beets | Beans | Peas or Corn | Cabbage | Other Crops |
|--------------|-------------|--------|--------------|---------|-------------|
| 1 | 13,490 | 14,390 | ... | 46 | 21,257 |
| 2 | 28,877 | 19,537 | 477 | 2,310 | 12,958 |
| 3 | 36,610 | 6,315 | 228 | 1,417 | 58,512 |
| 4 | 7,885 | 1,950 | 840 | 170 | 10,655 |
| 5 | 10,520 | 100 | 640 | 930 | 4,645 |
| 6 | 5,111 | 333 | 232 | 86 | 12,263 |
| 7 | 2,128 | 324 | 264 | 984 | 684 |
| 8 | 438 | 200 | 564 | 50 | 455 |
| 9 | 130 | 10 | 285 | 85 | 245 |
| 23 | 0 | 0 | 0 | 0 | 0 |
| 47 | 0 | 0 | 0 | 0 | 0 |
| 48 | 0 | 0 | 0 | 0 | 0 |
| 64 | 21,662 | 1,898 | 6,668 | 5,906 | 7,650 |
| 65 | 243 | 1,317 | ... | ... | 532 |
| Totals | 127,094 | 46,374 | 10,198 | 11,984 | 129,856 |

| District No. | Total Irrigated | Superintendence | Repairs | Improvements |
|--------------|-----------------|-----------------|--------------|--------------|
| 1 | 171,874 | ... | ... | ... |
| 2 | 216,586 | \$39,940 | \$35,699 | \$22,175 |
| 3 | 264,160 | ... | Not Reported | ... |
| 4 | 137,870 | 15,700 | 1,000 | 12,250 |
| 5 | 90,440 | 10,240 | 9,400 | ... |
| 6 | 172,497 | 12,940 | 15,072 | 1,100 |
| 7 | 86,490 | 15,150 | 16,295 | 6,575 |
| 8 | 30,182 | 6,005 | 34,178 | 11,983 |
| 9 | 14,942 | 5,037 | 2,363 | 320 |
| 23 | 37,000 | ... | ... | ... |
| 47 | 66,109 | ... | ... | ... |
| 48 | 4,176 | ... | ... | 1,000 |
| 64 | 151,431 | 27,297 | 39,684 | 36,456 |
| 65 | 43,378 | 725 | 1,150 | 180 |
| Totals | 1,447,135 | ..... | ..... | ..... |

‡1,873 acres in Nebraska.

Diversions From
LARAMIE RIVER AND TRIBUTARIES IN COLORADO
for Year 1939
State Engineer's Office

| Name of Ditch | Source of Supply | Days Run | Acre- Feet |
|--|---------------------------|-----------------|---------------|
| 1 Bliler-Boswell | Laramie River..... | 33 1/2 | 483.10 |
| 2 Brown | Nunn Creek..... | 39 1/4 | 633.92 |
| 3 Brown | Porter Creek..... | (No water used) | |
| 4 Ben Warren and Enlarge- ment | Laramie River..... | (No water used) | |
| 5 Brinker | Brinker Creek..... | 12 1/2 | 17.09 |
| 6 Comet | McIntyre Creek..... | 5 1/4 | 32.78 |
| 7 Cabin | Stubb Creek..... | 36 | 187.81 |
| 8 Detro No. 1..... | Forrester Creek..... | 41 1/2 | 369.47 |
| 9 Detro No. 2..... | Laramie River..... | (No water used) | |
| 10 Davy | Deadman Creek..... | 34 1/2 | 525.95 |
| 11 Forester | Brown Creek..... | 41 1/4 | 233.92 |
| 12 Forester No. 1..... | Forester Creek..... | 40 | 274.37 |
| 13 Forester No. 2..... | Forester Creek..... | 5 3/4 | 6.68 |
| 14 Ferguson | Laramie River..... | (No water used) | |
| 15 Frenchwoman | Frenchwoman Creek..... | 18 | 14.24 |
| 16 Grant | Roaring Creek..... | (No water used) | |
| 17 Grace and Enlargement..... | Grace Creek..... | 53 1/2 | 1,227.42 |
| 18 Hills | Laramie River..... | 35 | 384.88 |
| 19 Hills Upper..... | Laramie River..... | 39 3/4 | 499.38 |
| 20 Homestead | McIntyre Creek..... | 35 1/4 | 587.01 |
| 21 Homestead No. 1..... | Big Jenkins Creek..... | 40 3/4 | 302.33 |
| 22 Homestead No. 2..... | Little Jenkins Creek..... | 40 1/4 | 185.81 |
| 23 Hance | Grace Creek..... | 44 1/4 | 913.31 |
| 24 Jim | Jimmy Creek..... | 47 | 316.48 |
| 25 *Jim and Enlargement..... | Jimmy Creek..... | 11 1/2 | 160.27 |
| 26 Jimmy Creek..... | Laramie River..... | 42 | 885.53 |
| 27 LaGarde and Enlargement..... | La Garde Creek..... | 44 3/4 | 680.56 |
| 28 LaGarde No. 1..... | La Garde Creek..... | (No water used) | |
| 29 Lamb | McIntyre Creek..... | 40 1/2 | 1,347.76 |
| 30 Link No. 1..... | Laramie River..... | 36 1/2 | 590.85 |
| 31 Link No. 2..... | Link Creek..... | 14 1/4 | 107.49 |
| 32 Lone Tree..... | Lone Tree Creek..... | 32 | 89.25 |
| 33 Lanning, Chas. E..... | Laramie River..... | (No water used) | |
| 34 Lanning and Springer..... | Laramie River..... | (No water used) | |
| 35 Mansfield and Enlargement..... | Laramie River..... | 44 1/4 | 1,349.65 |
| 36 Mansfield No. 2..... | Laramie River..... | 44 3/8 | 988.18 |
| 37 Martin No. 1..... | Laramie River..... | 42 | 1,224.25 |
| 38 Martin No. 2 and Enlarge- ment | Laramie River..... | 44 1/2 | 1,533.68 |
| 39 McIntyre | McIntyre Creek..... | 36 1/2 | 478.14 |
| 40 McIntyre Lakes..... | McIntyre Creek..... | | |
| 41 Nellie | McGuire Creek..... | 37 1/2 | 300.56 |
| 42 Ollie | Jimmy Creek..... | 39 3/8 | 115.87 |
| 43 Pasche | LaGarde Creek..... | 43 1/2 | 901.45 |
| 44 Parker | Laramie River..... | 39 3/4 | 598.17 |
| 45 Pine Creek and Enlargement..... | Pine Creek..... | 35 3/4 | 296.92 |
| 46 Stuck | Stuck Creek..... | 40 3/4 | 635.62 |
| 47 Smith-Brown | Laramie River..... | 36 3/4 | 414.01 |
| 48 Stuart No. 1..... | Stuart Creek..... | 32 1/4 | 266.55 |
| 49 Stuart No. 2..... | McIntyre Creek..... | (No water used) | |

| | | | | |
|----------------------------------|-----------------------|----------------|--|-----------|
| 50 | Stubb | Stubb Creek | 32 1/4 | 157.41 |
| 51 | Schnitger | LaGarde Creek | 42 | 416.61 |
| 52 | Slough | Slough Creek | (No water used) | |
| 53 | Trollope | Trollope Creek | 34 1/4 | 35.32 |
| 54 | Talmadge | McIntyre Creek | 29 1/2 | 161.81 |
| 55 | Timothy | Laramie River | 26 | 337.68 |
| 56 | Thompson | British Creek | (Water to Nellie Ditch Measured through it also) | |
| 57 | Warren | Laramie River | 41 1/3 | 403.94 |
| 58 | Ward No. 1 | Jimmy Creek | 28 1/3 | 90.72 |
| 59 | Ward No. 2 | Jimmy Creek | 8 1/3 | 30.04 |
| 60 | Wright | Laramie River | 4 | 14.32 |
| 61 | Yelton | Laramie River | 40 | 1,042.44 |
| Total—Meadowland Diversions | | | | 22,851.00 |
| Transmountain | | | | |
| 62 | Laramie-Poudre Tunnel | | 47 1/2 | 9,001.00 |
| 63 | Skyline | | 48 1/4 | 47,488.00 |
| 64 | Deadman | Deadman Creek | 40 | 874.00 |
| Total to and including June 19th | | | | 40,214.00 |
| | | | | *124.57 |
| GRAND TOTAL | | | | 40,089.43 |

This total includes 204 acre feet stored in the Johnson Reservoir through Grace Creek Enlarged Ditch.

*Credit this ditch with 62.82 day second feet, as this amount of water has been charged through Jimmy Creek ditch out of Laramie River, leaving a charge of 18 day second feet against this ditch.

ANNUAL REPORT—IRRIGATION DIVISION NO. 1

FOR THE YEAR 1940

Denver, Colorado, November 26, 1940.

Mr. M. C. Hinderlider
State Engineer
State Capitol Building
Denver, Colorado

Dear Sir:

Following is a report on irrigation activities and administrative procedure in Irrigation Division No. 1 for the year of 1940.

In contrast to the season of 1939, when the storage for irrigation uses amounted to 579,578 acre feet on May 1st, the season of 1940 was extremely short of storage water, there being only 242,892 acre feet available on May 1st this year. The usual June increase in storage was lacking, due to low stream runoff and sub-normal precipitation. Snowfall during the winter was light, which was reflected in low runoff, both from the streams and transmountain diversions, the latter diverting a total of 75,241 acre feet in 1940 as compared to 82,423 acre feet in 1939, and the year of 1940 includes the diversion of 9555 acre feet by the new Jones Pass tunnel, owned by the City of Denver, which began operating May 10, 1940.

Excessive temperatures prevailed during July and August, accompanied by deficient precipitation, which damaged crops and ranges severely. The high temperature of 113° in Sedgwick on July 24th is only 2° below the all-time record for the state.

Despite the lack of storage and with low stream runoff prevalent, crops in the South Platte basin were much better than expected. Hay crops in the mountain areas were about 60 to 75 per cent normal, while in the lower South Platte the hay crop was nearly normal. The sugar beet crop was much better than anticipated, being benefited by timely rains in late August, and during September, when the precipitation was generally 200 per cent normal. The yield of dry land crops was much below normal, but in the irrigated sections crops were from 60 to 100 per cent normal. Severe hail storms occurred in Denver and a few other sections on the 5th and 13th of September, and in Denver one of the most severe hail storms of record fell on August 22nd. Losses of crops and property were estimated at more than \$200,000 due to these storms. Little precipitation fell during October, and beet harvest was carried on under ideal weather conditions. The precipitation from January 1st to November 20th was 1.50 inches below normal in the Denver area.

Storms in early November stopped most all direct irrigation and storage in Barr Lake began on November 7th and in Jackson Lake and North Sterling on November 10th. A few reservoirs in District No. 3 and in some other sections began storing water on November 1st and shortly thereafter.

Many complaints were received, as is to be expected during times of water shortage, but every effort was made by the water commissioners and this office to eliminate as nearly as possible any administrative action which would violate the rights of any appropriator and, while reasonable success was attained, considering the many complications involved and the extensiveness of the Division, it is desirable that steps be taken to further increase the efficiency of the administrative department and, to that end, adequate appropriations of money should be made.

The administration of the Laramie River decree, as handed down by the U. S. Supreme Court and the District Court of Larimer County, presented a situation slightly different from that which has been prevalent heretofore, in that users (Columbine and Bob Creek Canal, Lost Lakes, Wright, Grant and British Creek Ditches) which had not previously been allowed to divert any water under the former interpretation of the decree by the U. S. Supreme Court, were allowed to divert this year in conformity with the ruling of the District Court of Larimer County, and those appropriators who are without a decreed water right in Water District No. 48 find themselves in a position, at least temporarily, superior to holders of decreed rights.

The headgates of the Laramie River ditches in Colorado were closed June 16th and remained closed for the remainder of the season. The ditches were patrolled by special deputies and the water commissioner of District No. 48 for the duration of the season. No serious violations were reported, although some difficulty arose relative to use of stock and domestic water, and this was later taken care of by agreement of the interested parties.

The hay crop in the Laramie was somewhat shorter than last year, 2518 tons of hay being harvested in 1940 as compared to 2730 tons in 1939. It should be remembered, however, that in 1939 the Laramie River headgates were closed on June 18th, and little success was attained in preventing further diversions of water, while in 1940, through the cooperation of the water users, little if any opposition was met by this department in keeping diversions closed after June 16th, at which time the total amount of 39,750 acre feet of water, allotted to the users of Laramie River water in Colorado, had been diverted through the rating flumes of the appropriators.

Work is progressing on the Colorado-Big Thompson transmountain diversion, but completion and operation of the project will require considerable time.

The City of Greeley has initiated plans for a storage reservoir on the North Fork of the Cache la Poudre River, and it is expected that construction will soon begin.

There was no major construction or failure of dams in the Division during the year; however, the Badger Creek Dam was breached in the interest of safety.

The City of Denver has constructed Parshall rating flumes in the South Platte River above and below Eleven Mile Canon Reservoir, to be used in more accurately determining the inflow and outflow at the reservoir. The lower flume is a 15-foot concrete structure with 6-foot side walls, while the flume above the reservoir is a 20-foot timber structure with 6-foot side walls. Both flumes are equipped with automatic recording gages.

The outlook for the coming year is not especially encouraging in this Division, although somewhat better than at this time last year, as several storms during November have materially increased the water supply in this Division, and storage of water is about one month advanced over last year.

I wish to express my appreciation to all who have assisted in the administration of the decretal water orders in this Division the past year.

Very respectfully submitted,

J. E. WHITTEN,
Special Deputy State Engineer.

TRANSMOUNTAIN DIVERSIONS

IRRIGATION DIVISION NO. 1 AND INTER-DIVISION 1940

| Name of Diversion | Ac. Ft. | From Dist. | To Dist. | Source of Supply | First Day | Last Day |
|-----------------------------|---------|------------|----------|------------------------------------|-----------|----------|
| Deadman | 607 | 48 | 3 | Deadman Creek, Trib. Laramie River | May 6 | June 17 |
| Laramie-Poudre Tunnel | 7,409 | 48 | 3 | Laramie River | Apr. 23 | June 16 |
| Skyline | 7,215 | 48 | 3 | Laramie River | May 3 | June 16 |
| Sand Creek | 1,191 | 48 | 48 | Sand Creek | May 12 | June 17 |
| Lost Lake | 132 | 48 | 3 | Laramie River | May 8 | June 1 |
| Michigan | 1,775 | 47 | 3 | No. Platte River | May 11 | Aug. 6 |
| Cameron Pass.... | 235 | 47 | 3 | No. Platte River | May 27 | July 11 |
| Grand River..... | 17,196 | 51 | 3 | Colorado River Trib. | May 5 | Aug. 18 |
| Columbine | 78 | 48 | 3 | Laramie River | May 19 | June 17 |
| Moffat Tunnel.... | 28,813 | 51 | 6-7 | Colorado River | Apr. 25 | Oct. 15 |
| Bob Creek..... | 167 | 48 | 3 | Laramie River Trib. | May 8 | June 17 |
| East Hoosier.... | 101 | 36 | 23 | Blue River | May 23 | June 23 |
| West Hoosier.... | 0 | .. | .. | .. | .. | .. |
| Boreas Pass..... | 166 | 36 | 23 | Blue River | May 24 | Aug. 3 |
| *Jones Pass..... | 9,555 | 51 | 7 | Wms. Fk. River | May 10 | Aug. 15 |
| *Eureka | 35 | 51 | 4 | Colorado River | June 30 | Aug. 3 |
| Berthoud Pass.. | 566 | 51 | 7 | Colorado River | June 6 | Sept. 8 |
| Total | 75,241 | | | | | |

*First year of operation.

MOFFAT TUNNEL SUMMARY

1940

| | Ac. Ft. | Ac. Ft. |
|--------------------------------------|---------|---------|
| East Portal..... | | 28,813 |
| Diverted at Eldorado Springs..... | 26,802 | |
| Used through Ralston Reservoir..... | 24,537 | |
| Used by Exchange: | | |
| Eleven Mile Canon Reservoir..... | 983 | |
| Lake Cheesman..... | 329 | |
| Intake | 209 | |
| Clear Creek Sales..... | 744 | |
| South Boulder Creek Sales..... | 1,050 | |
| 2½% charged for loss in transit..... | 720 | |
| Total accounted for..... | 28,572 | |
| Unaccounted for..... | 241 | |

WILLIAMS FORK TUNNEL—1940

| | Ac. Ft. | Ac. Ft. |
|--|---------|---------|
| Total Diversion at East Portal..... | | 9,555 |
| Distribution: | | |
| City of Denver, Parks Use..... | 722 | |
| City of Denver, Exchange at Intake..... | 4,038 | |
| City of Denver, Exchange at 11-Mile Reservoir..... | 290 | |
| City of Denver, Exchange at Lake Cheesman..... | 218 | |
| Total City Use..... | 5,268 | |
| Sales for Agricultural Use..... | 3,763 | |
| Total Use..... | 9,031 | |
| Loss in Transit Charged 5%..... | 478 | |
| Total Accounted for..... | 9,509 | |
| Unaccounted for..... | 46 | |

Diversions from
LARAMIE RIVER AND TRIBUTARIES IN COLORADO
for Year 1940

State Engineer's Office

| Name of Ditch | Starting Date | Ending Date | Total S.F. Discharged | Acre Feet |
|---------------------------------|---------------|------------------|-----------------------|-----------|
| Biler-Boswell | 5-13-40 | 6-16-40 | 388.67 | 771 |
| Brown (Num Creek) | 5-11-40 | 6-17-40 | 269.30 | 534 |
| Brown (Porter Creek) | 5-9-40 | 6-16-40 | 95.24 | 189 |
| Brinker | 5-17-40 | 6-16-40 | 31.04 | 62 |
| Comet | 6-7-40 | 6-16-40 | 35.08 | 69 |
| Cabin | 5-13-40 | 6-16-40 | 84.28 | 167 |
| Detro No. 1 | 5-12-40 | 6-17-40 | 151.01 | 300 |
| Detro No. 2 | | | 0.00 | ... |
| Davy | 5-12-40 | 6-16-40 | 252.51 | 501 |
| Forrester | 5-12-40 | 6-16-40 | 39.62 | 79 |
| Forrester No. 1 | 5-7-40 | 6-17-40 | 127.43 | 253 |
| Forrester No. 2 | 5-14-40 | 6-17-40 | 44.43 | 88 |
| Ferguson | 5-12-40 | 6-17-40 | 61.12 | 121 |
| Grace Creek and Enlargement | 5-12-40 | 6-17-40 | 482.75 | 957 |
| Hills | 5-11-40 | 6-16-40 | 83.44 | 165 |
| Upper Hills | 5-11-40 | 6-16-40 | 207.86 | 412 |
| Homestead | 5-10-40 | 6-16-40 | 235.45 | 467 |
| Homestead No. 1 | 5-12-40 | 6-16-40 | 150.98 | 300 |
| Homestead No. 2 | 5-15-40 | 6-16-40 | 81.51 | 162 |
| Hance | 5-12-40 | 6-17-40 | 418.88 | 831 |
| Jim | 4-26-40 | 6-17-40 | 95.92 | 190 |
| Jimmy and Enlargement | 5-12-40 | 6-16-40 | 46.78 | 93 |
| Jimmy | 5-12-40 | 6-16-40 | 387.09 | 768 |
| La Garde and Enlargement | 5-9-40 | 6-16-40 | 533.42 | 1,058 |
| La Garde No. 1 | 5-17-40 | 6-16-40 | 119.47 | 238 |
| Lamb | 5-1-40 | 6-16-40 | 672.21 | 1,333 |
| Link No. 1 | 4-27-40 | 6-16-40 | 273.79 | 544 |
| Link No. 2 | 6-7-40 | 6-9-40 | 7.38 | 15 |
| Lone Tree | 5-27-40 | 6-13-40 | 10.44 | 21 |
| Mansfield and Enlargement | 5-12-40 | 6-17-40 | 548.19 | 1,087 |
| Mansfield No. 2 | 4-26-40 | 6-17-40 | 509.96 | 1,011 |
| Martin No. 1 | 5-12-40 | 6-16-40 | 341.50 | 677 |
| Martin No. 2 | 5-5-40 | 6-16-40 | 581.38 | 1,153 |
| McIntyre | 5-10-40 | 6-16-40 | 249.16 | 494 |
| Nellie | 5-11-40 | 6-17-40 | 162.79 | 323 |
| Ollie | 5-13-40 | 6-14-40 | 6.84 | 14 |
| Pache | 5-18-40 | 6-16-40 | 417.11 | 827 |
| Parker | 5-11-40 | 6-16-40 | 266.26 | 528 |
| Pine Creek | 5-9-40 | 5-16-40 | 180.46 | 358 |
| Stuck | 5-11-40 | 6-17-40 | 315.15 | 625 |
| Smith-Brown | 5-12-40 | 6-17-40 | 313.00 | 621 |
| Stuart No. 1 | 4-27-40 | 6-16-40 | 180.04 | 357 |
| Stuart No. 2 | 4-26-40 | 6-16-40 | 15.92 | 32 |
| Stubb | 5-13-40 | 6-16-40 | 70.13 | 139 |
| Schnitger | 5-12-40 | 6-16-40 | 198.06 | 393 |
| Trollope | 4-30-40 | 6-13-40 | 6.32 | 12 |
| Talmadge | 5-9-40 | 6-16-40 | 146.59 | 291 |
| Timothy | 4-22-40 | 6-16-40 | 441.21 | 875 |
| Thompson | | Via Nellie Ditch | | |
| Warren | 5-15-40 | 6-17-40 | 148.13 | 294 |
| Ward No. 1 | 5-18-40 | 6-12-40 | 21.28 | 42 |
| Yelton | 5-14-40 | 6-16-40 | 704.19 | 1,396 |
| Wright | 4-22-40 | 6-16-40 | 795.76 | 1,578 |
| Grant | 4-27-40 | 6-17-40 | 56.49 | 112 |
| British Creek No. 1 | 5-11-40 | 6-16-40 | 72.62 | 144 |
| Total Meadowland Diversions | | | 12,135.64 | 24,070.69 |
| Trans-mountain | | | | |
| Bob Creek | | | 84.15 | 166.91 |
| Columbine | | | 39.36 | 78.07 |
| Deadman | | | 306.10 | 607.14 |
| Laramie-Poudre Tunnel | | | 3,736.60 | 7,411.44 |
| Skyline | | | 3,637.70 | 7,215.27 |
| Lost Lake | | | 66.80 | 132.50 |
| Total Trans-mountain Diversions | | | 7,870.71 | 15,611.33 |
| Grand Totals | | | 20,006.35 | 39,682.02 |

Compiled by Glen E. Whitten, Special Deputy State Engineer.

Checked by J. E. Whitten, Special Deputy State Engineer.

CROP REPORT

Measured 2519 tons of native hay in District, 48, from 4100 acres cut over.

455 acres on Sand Creek irrigated. Total in District 48 irrigated, 4555 acres.

The following is a statement of water in storage in Irrigation Division No. 1, from May 1 to November 1, 1940, tabulated by districts. Does not include North Park District No. 47, nor the Laramie River Basin District No. 48, as there is very little storage in either of these districts.

By J. E. WHITTEN, Special Deputy.

VALUES IN ACRE FEET

| Dist No. | May 1st | June 1st | July 1st | Aug. 1st | Sept. 1st | Oct. 1st | Nov. 1st |
|-----------------|---------|----------|----------|----------|-----------|----------|----------|
| 1 | 78,624 | 61,664 | 33,317 | 16,975 | 1,000 | 400 | 380 |
| 2 | 28,253 | 25,917 | 13,248 | 6,369 | 1,300 | 1,300 | 2,541 |
| 3 | 35,714 | 44,753 | 43,720 | 36,005 | 11,377 | 10,717 | 18,754 |
| 4 | 6,880 | 5,589 | 3,988 | 3,755 | 1,586 | 3,025 | 4,153 |
| 5 | 7,746 | 8,130 | 7,870 | 5,584 | 806 | 1,117 | 1,015 |
| 6 | 13,384 | 13,886 | 12,203 | 12,137 | 10,437 | 10,367 | 13,462 |
| 7 | 5,144 | 5,818 | 12,798 | 11,707 | 10,196 | 9,512 | 9,104 |
| 8 | 17,576 | 17,191 | 17,071 | 15,015 | 14,492 | 16,426 | 17,312 |
| 9 | 4,225 | 3,282 | 2,025 | 955 | 543 | 548 | 582 |
| 23 | 142,311 | 144,942 | 135,967 | 131,278 | 124,753 | 123,356 | 122,830 |
| 64 | 64,756 | 48,793 | 38,707 | 25,077 | 6,038 | 2,908 | 4,017 |
| Totals | 404,613 | 379,965 | 320,914 | 264,857 | 182,528 | 179,676 | 194,150 |
| City of Denver | 161,721 | 165,521 | 162,646 | 156,872 | 148,468 | 149,025 | 149,075 |
| Bal. for Irrig. | 242,892 | 214,444 | 158,268 | 107,985 | 34,060 | 30,651 | 45,075 |

CROP REPORT

IRRIGATION DIVISION NO. 1

1940

| District No. | First Day Water Used from Natural Stream | Last Day Water Used from Natural Stream | No. Acre Feet Used for Season | Total Acres That Can Be Irrigated | Alfalfa |
|--------------|--|---|-------------------------------|-----------------------------------|---------|
| 1 | 11- 1-39 | 10-31-40 | 222,246 | 183,126 | 36,318 |
| 2 | 4- 1-40 | 10-31-40 | 246,537 | 227,510 | 40,890 |
| 3 | 4-16-40 | 10-13-40 | 245,083 | 389,200 | 56,476 |
| 4 | 4- 7-40 | 10-31-40 | 118,396 | 139,450 | 36,370 |
| 5 | 3- 2-40 | 10-31-40 | 77,450 | 124,595 | 35,425 |
| 6 | 4- 1-40 | 10-31-40 | 96,047 | 195,173 | 29,681 |
| 7 | 3-30-40 | 10-31-40 | 96,844 | 112,365 | 13,430 |
| 8 | 3-15-40 | 10-31-40 | 92,426 | 111,855 | 12,780 |
| 9 | 4- 1-40 | 10-31-40 | 19,136 | 17,880 | 4,242 |
| 23 | 4-10-40 | 10-31-40 | ..... | 50,000 | ..... |
| 47 | 4-17-40 | 8-21-40 | ..... | 70,000 | ..... |
| 48 | 5- 1-40 | 6-17-40 | 24,070 | 5,000 | ..... |
| 64 | 11- 1-39 | 10-31-40 | 263,041 | 174,726 | 27,344 |
| 65 | 4-16-40 | 10-31-40 | 13,218 | *7,325 | 718 |
| Totals | ..... | ..... | 1,514,494 | 1,808,106 | 293,674 |

*5,000 acres in Nebraska.

CROP REPORT
IRRIGATION DIVISION NO. 1
1940

| District No. | Natural Grasses | Cereals | Orchards | Market Gardens | Potatoes |
|--------------|-----------------|-------------------------|----------|----------------|----------|
| 1 | 21,462 | 55,875 | 154 | 280 | 3,178 |
| 2 | 10,435 | 86,054 | 272 | 10,160 | 8,720 |
| 3 | 4,535 | 69,489 | 1,730 | 3,602 | 27,268 |
| 4 | 465 | 68,160 | 1,798 | 485 | 3,795 |
| 5 | 5,842 | 43,088 | 625 | 715 | 1,000 |
| 6 | 62,965 | 56,380 | 622 | 1,101 | 108 |
| 7 | 1,554 | 51,231 | 3,007 | 12,565 | 182 |
| 8 | 2,198 | 12,948 | 70 | 1,814 | 28 |
| 9 | 2,136 | 6,645 | 87 | 230 | 0 |
| 23 | 40,000 | ..... | ..... | ..... | ..... |
| 47 | 60,685 | ..... | ..... | ..... | ..... |
| 48 | 4,555 | (2,519 tons native hay) | ..... | ..... | ..... |
| 64 | 30,498 | 46,376 | 159 | 932 | 2,315 |
| 65 | 327 | 365 | 33 | 43 | 50 |
| Totals | 247,657 | 496,611 | 8,558 | 31,927 | 46,651 |

| District No. | Sugar Beets | Beans | Corn | Cabbage | Other Crops |
|--------------|-------------|--------|-------|---------|-------------|
| 1 | 15,972 | 15,883 | ..... | 55 | 16,578 |
| 2 | 31,355 | 17,038 | 464 | 2,034 | 12,540 |
| 3 | 38,447 | 6,036 | 272 | 1,511 | 54,834 |
| 4 | 12,650 | 3,955 | 860 | 60 | 6,787 |
| 5 | 13,900 | 100 | 100 | 580 | 7,755 |
| 6 | 4,511 | 413 | 252 | 92 | 16,575 |
| 7 | 2,129 | 339 | 262 | 1,267 | 421 |
| 8 | 383 | 180 | 574 | 50 | 403 |
| 9 | 270 | 25 | 1,570 | 90 | 285 |
| 23 | ..... | ..... | ..... | ..... | ..... |
| 47 | ..... | ..... | ..... | ..... | ..... |
| 48 | ..... | ..... | ..... | ..... | ..... |
| 64 | 19,023 | 3,094 | 1,913 | 13,015 | 5,649 |
| 65 | 151 | 533 | 1,145 | 6 | 57 |
| Totals | 138,791 | 47,596 | 7,412 | 18,760 | 121,884 |

| District No. | Total Irrigated | Superintendence | Repairs | Improvements |
|--------------|-----------------|-----------------|----------|--------------|
| 1 | 165,755 | \$21,894 | \$41,242 | \$ 2,548 |
| 2 | 219,962 | 41,866 | 34,776 | 22,210 |
| 3 | 264,200 | Not Reported | ..... | ..... |
| 4 | 135,385 | 22,100 | 1,200 | 9,900 |
| 5 | 109,130 | 11,050 | 6,875 | ..... |
| 6 | 172,701 | 13,000 | 14,201 | 10,537 |
| 7 | 86,394 | 15,040 | 17,585 | 6,250 |
| 8 | 31,428 | 6,264 | 25,788 | 7,936 |
| 9 | 15,580 | 3,209 | 2,275 | 375 |
| 23 | 40,000 | ..... | ..... | ..... |
| 47 | 60,685 | ..... | ..... | ..... |
| 48 | 4,555 | ..... | ..... | ..... |
| 64 | 150,318 | 25,416 | 36,721 | 5,741 |
| 65 | 73,428 | 759 | 1,032 | 45 |
| Totals | 1,459,521 | ..... | ..... | ..... |

†1,888 acres in Nebraska.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 2 FOR THE SEASON OF 1939

December 1, 1939.

Mr. M. C. Hinderlider
State Engineer
Denver, Colorado

Dear Sir:

During the winter of 1938 and 1939 the stage of the Arkansas River and weather conditions permitted considerable storage of reservoir water.

The water content of the snowfall amounted to 5.36 inches which was 1.11 inches above the twenty-six year average. Moisture conditions were good during the winter months and when spring arrived the ground both on the farms and on the range was well supplied with moisture. The season opened very promising for agriculture.

On May 1st there was an excess of 2.55 inches of rainfall since the first of January. During the month of May climatic conditions changed radically and by November 1st the precipitation was 2.87 inches short of normal at the Pueblo station. This was a loss of 5.42 inches during the growing season when rainfall was most needed. Below is given a tabulation of the rainfall for 1939 and the 50-year average at the Pueblo station:

| Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Total |
|----------|------|------|------|------|------|------|------|------|------|-------|------|-------|
| 1938 | 1538 | 1939 | 1939 | 1939 | 1939 | 1939 | 1939 | 1939 | 1939 | 1939 | 1939 | 1939 |
| 0.41 | 0.47 | 1.20 | 1.42 | 0.57 | 2.04 | 1.51 | 0.05 | 0.13 | 0.68 | 0.32 | 0.02 | 8.82 |
| Average: | | | | | | | | | | | | |
| 0.36 | 0.50 | 0.31 | 0.47 | 0.59 | 1.31 | 1.60 | 1.36 | 1.94 | 1.82 | 0.75 | 0.66 | 11.67 |

Water conditions were unfavorable after May. At a time we usually get an extra amount of rainfall we passed through a dry period. The flow of the Arkansas River at Pueblo amounted to 390,000 acre feet in 1939 which included 63,300 acre feet of reservoir and transmountain water. The average flow is 516,074 acre feet.

The melting snows furnished a fair runoff during May and June but after the snow water was gone there was no runoff from storms to supply irrigation water.

Grasshoppers and insects were again prevalent and did much damage.

There were no destructive hail storms and no runoff from rain storms to cause sudden changes in the stream flow and under these favorable conditions we made observations on several runs of reservoir water and secured reliable records. This data should be worked up as it will give information as to losses and the best

practice to follow in handling reservoir runs. The running of reservoir water long distances from the mountains has been a source of misunderstanding and I now believe we are on the road to correct this trouble.

On May 1, 1939, there was in storage 162,071 acre feet of water. This was divided as follows: For irrigation, 147,287 acre feet. For power purposes, 10,287 acre feet, and for domestic use 5,007 acre feet.

On November 1, 1939, there was in storage 53,388 acre feet which was divided as follows: For irrigation, 40,111 acre feet. For power purposes, 9,362 acre feet, and for domestic use 3,915 acre feet.

During the past season a total of 63,371 acre feet of reservoir and transmountain water was run to canals near Pueblo and east of here. A charge of 7,970 acre feet was made for the use of the river channel as a carrier.

During the past season a total of 45,506 acre feet of water was brought from the Western Slope for use in the Arkansas Valley, which with the reservoir water was a very material help to the irrigated agriculture of this valley.

Yours truly,

C. W. BEACH,
Division Engineer Irrigation Division No. 2.

IRRIGATION DIVISION No. 2.
 Tabulated Statement of Water Commissioners' Annual Crop Reports for the Irrigation Season of 1939

| Number of Water District | Amount Appropriated in Cubic Feet per Second | Capacity of Ditches in Second Feet | Length of Main Ditches in Miles | Length of Laterals in Miles | Irrigation Season | | | | | | Number of Acres Irrigated | | | | | | | |
|------------------------------|--|------------------------------------|---------------------------------|-----------------------------|-------------------|----------|--------|-------|----------|-----------|---------------------------|-------------|--------------|--------------|-------|-------|-------|-------|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 10..... | 660.95 | 1,327.75 | 132.75 | ..... | March 2 | Nov. 1 | 231 | 275 | 6,096 | 134.04 | 40,895.66 | 24,255 | ..... | ..... | ..... | ..... | ..... |  |
| 11..... | 1,275.5 | 3,057.5 | 305.75 | ..... | March 1 | Nov. 30 | 515 | 566 | 1,415 | 1,052.24 | 925,057.54 | 37,353.5 | ..... | ..... | ..... | ..... | ..... |  |
| 12..... | 1,187.65 | 1,015.6 | 101.56 | ..... | Nov. 1 | Oct. 31 | 556 | 156 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| 13..... | 498.98 | 268.25 | 268.25 | ..... | May 3 | Oct. 31 | 359 | 133 | 3,520 | 210.34 | 222,869 | 17,239 | ..... | ..... | ..... | ..... | ..... |  |
| 14..... | 1,973.93 | 2,157.7 | 2,157.7 | ..... | Nov. 1, 1938 | Oct. 31 | 337 | 93 | 66,720 | 108.34 | 27,426 | 113,805 | ..... | ..... | ..... | ..... | ..... |  |
| 15..... | 2,111.9 | 2,170.9 | 88.05 | ..... | Nov. 1, 1938 | Oct. 31 | 277 | 277 | 1,083.33 | 207.33 | 21,866.64 | 13,285 | ..... | ..... | ..... | ..... | ..... |  |
| 16..... | 1,434.56 | 4,607.41 | 643.17 | ..... | Nov. 1, 1938 | Oct. 31 | 148 | 16 | 1,438 | 203.33 | 20,139.27 | 113,109 | ..... | ..... | ..... | ..... | ..... |  |
| 17..... | 5,933.28 | 7,386 | 503 | ..... | Nov. 1, 1938 | Oct. 31 | 287 | 90 | 23,120 | 824.29 | 262,830.4 | 186,141 | ..... | ..... | ..... | ..... | ..... |  |
| 18..... | 370.23 | 555 | 555 | ..... | May 3 | Aug. 15 | 8 | 8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| 19..... | 1,859.07 | 373.77 | 373.77 | ..... | Nov. 1, 1938 | Oct. 31 | 327 | 434 | 10,244 | 407.55 | 152,444 | 50,958 | ..... | ..... | ..... | ..... | ..... |  |
| 67..... | 3,412.75 | 2,255.5 | 2,255.5 | ..... | Nov. 1, 1938 | Oct. 31 | 316 | 63 | 7,722 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| 66..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Totals | 18,808.80 | 17,621.68 | 2,973.34 | ..... | ..... | ..... | ..... | ..... | 124,679 | 11,457.96 | 1,385,341.15 | 592,864.50 | ..... | ..... | ..... | ..... | ..... |  |
| Number of Water District | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | ..... | ..... | ..... |  |
| Alfalfa | 2,375 | 3,494 | 3,882 | 25 | 326 | 467 | 407 | ..... | 101 | 671 | 13,038 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Natural Grasses | 5,135 | 14,644 | 6,527 | 122 | 518 | 916 | 102 | 87 | 1,460 | 898 | 30,860 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Cereals | 4,437 | 5,821 | 5,821 | 3,911 | 437 | 51 | 197 | 214 | 178 | 1,900 | 20,479 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Orchards | 1,737 | 12,532 | 1,901 | 2 | 2 | 2 | 36 | 16 | 65 | 637 | 17,249 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Market Gardens | 36,636 | 4,875 | 21,835 | 332 | 2,075 | 2,176 | 13,103 | 1,013 | 9,210 | 3,749 | 100,578 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Potatoes and Cautaloups | 2,928.5 | 2,446 | 2,531.5 | 18 | ..... | ..... | 38 | ..... | 1 | 35 | 8,076.5 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Sugar Beets | 15,538 | 6,339 | 12,138 | 117.5 | 71 | 6,363 | 870 | ..... | 1,803 | 726 | 38,263.5 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Head Lettuce and Cauliflower | 52,176 | 3,483 | 6,338.7 | 414 | 1,205 | ..... | 13,247 | ..... | 3,998 | 7,642 | 152,878 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Pears, Beans | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Peas, Beans | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| (Other) Crops | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Total Irrigated | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Superintendence | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Cost of Repairs | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Cost of Improvements | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| Number of Water District | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| Totals | 145,127.50 | 56,503.83 | 150,853.72 | 4,991.5 | 5,518 | 13,309.5 | 29,177 | | 1,330 | 20,174 | 465,881.73 | \$70,624.34 | \$115,552.28 | \$142,838.91 | | | | |

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 2 FOR THE SEASON OF 1940

December 9, 1940.

Mr. M. C. Hinderlider
State Engineer
Denver, Colorado

Dear Sir:

The winter of 1939 and 1940 was mild and open with but little snow. Winter irrigation was practiced and consumed much of the winter stream flow, consequently there was but little storage.

During the months of April and May we had an excess of rainfall which was of great help in starting spring crops. All seedings had a good start and looked promising up to June first when the dry weather set in. The average rainfall for June, July and August is 5.12 inches. During these three months this year there was only 2.22 inches.

The water content of the mountain snowfall was 2.29 inches and the average water content for the past twenty-six years is 4.08 inches. The June runoff from snow was light and this coupled with a dry summer was disastrous to many crops.

Below I give a table showing the average rainfall by months together with the rainfall during the past growing season:

| Nov. 1939 | Dec. 1939 | Jan. 1940 | Feb. 1940 | Mar. 1940 | Apr. 1940 | May 1940 | June 1940 | July 1940 | Aug. 1940 | Sept. 1940 | Oct. 1940 | Total |
|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|------------|-----------|-------|
| 0.51 | 0.41 | 0.72 | 0.66 | 0.36 | 1.54 | 1.76 | 0.39 | 1.01 | 0.82 | 1.96 | 0.36 | 10.50 |
| Average: | | | | | | | | | | | | |
| 0.36 | 0.50 | 0.31 | 0.47 | 0.59 | 1.31 | 1.60 | 1.36 | 1.94 | 1.82 | 0.75 | 0.66 | 11.67 |

This table gives some idea of moisture conditions during the growing season.

Insect pests, especially grasshoppers, were less numerous than in former years. Poisoning and their natural enemies had reduced their numbers. There were no general destructive hail storms.

A total of 35,689 acre feet of transmountain water was brought over to the Arkansas River drainage during the 1940 season.

Transmountain water and reservoir water played an important part in our irrigated agriculture. A total of 40,343 acre feet of transmountain and reservoir water was run to canals in water districts 14 and 17, and a charge of 4,202 acre feet was made on this water for the use of the river channel in carrying this water.

On May 1, 1940, there was a total of 57,763 acre feet in storage in reservoirs divided as follows: For irrigation, 48,411 acre

feet ; for manufacturing purposes, 7,311 acre feet, and for municipal purposes, 1,983 acre feet. The average amount in storage for the past 12 years on May 1st is 124,731 acre feet.

On November 1, 1940, there was a total of 41,173 acre feet in storage, divided as follows: For irrigation, 25,205 acre feet ; for manufacturing purposes, 14,142 acre feet, and for municipal use 2,826 acre feet. The average amount in storage on November 1st for the past 12 years is 88,761 acre feet.

During the past season a number of observations under good conditions were secured on running of reservoir water. The run observed from August 12th to 24th was made under very dry river conditions and the observations were especially instructive. Also observations were made on flash floods as they pass down the river channel and the amount of absorption over the dry sand. The results are instructive and will assist greatly in future handling of this type of stream flow.

Yours truly,

C. W. BEACH,
Division Engineer Irrigation Division No. 2.

IRRIGATION DIVISION No. 2
Tabulated Statement of Water Commissioners' Annual Crop Reports for the Irrigation Season of 1940

| Number of Water District | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | |
|---|--------------|-----------|----------|----|-------|--------|-------|-------|--------|-------|---------|-------------|--------------|-----------|-----------|
| Number of Water District | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | |
| Amount Appropiated in Cubic Feet per Second | 638.85 | | | | | | | | | | | | | | |
| Capacity of Ditches in Second Feet | 1,306.37 | | | | | | | | | | | | | | |
| Length of Main Ditches in Miles | 118.25 | | | | | | | | | | | | | | |
| Length of Laterals in Miles | | | | | | | | | | | | | | | |
| First Day Water Diverted from Natural Stream | Mar. 1, 1940 | | | | | | | | | | | | | | |
| Last Day Water Diverted from Natural Stream | Nov. 1, 1940 | | | | | | | | | | | | | | |
| Maximum Number of Days Water Diverted from Natural Stream | 235 | | | | | | | | | | | | | | |
| Amount of Water Carried from Reservoirs | 4,479 | | | | | | | | | | | | | | |
| Average Daily Amount Diverted from Stream | 152.02 | | | | | | | | | | | | | | |
| Number of Acres Irrigated That Can Be | 26,109 | | | | | | | | | | | | | | |
| Number of Acres Irrigated | 7,399 | | | | | | | | | | | | | | |
| Number of Acres Irrigated | 27,853 | | | | | | | | | | | | | | |
| Number of Acres Irrigated | 6,347 | | | | | | | | | | | | | | |
| Number of Acres Irrigated | 115,148 | | | | | | | | | | | | | | |
| Number of Acres Irrigated | 13,936 | | | | | | | | | | | | | | |
| Number of Acres Irrigated | 113,604 | | | | | | | | | | | | | | |
| Number of Acres Irrigated | 182,452 | | | | | | | | | | | | | | |
| Number of Acres Irrigated | 8,725 | | | | | | | | | | | | | | |
| Number of Acres Irrigated | 50,610 | | | | | | | | | | | | | | |
| Number of Acres Irrigated | 97,899 | | | | | | | | | | | | | | |
| Number of Acres Irrigated | 573,180 | | | | | | | | | | | | | | |
| Totals | 21,720.94 | 18,698.81 | 2,999.37 | | | | | | | | | | | | |
| Number of Water District | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | |
| Number of Water District | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | |
| Alfalfa | | | | | | | | | | | | | | | |
| Natural Grasses | | | | | | | | | | | | | | | |
| Cereals | | | | | | | | | | | | | | | |
| Orchards | | | | | | | | | | | | | | | |
| Potatoes and | | | | | | | | | | | | | | | |
| Market Gardens | | | | | | | | | | | | | | | |
| Sugar Beets | | | | | | | | | | | | | | | |
| Head Lettuce, Cauliflower, Cabbage | | | | | | | | | | | | | | | |
| Peas, Beans | | | | | | | | | | | | | | | |
| Other Crops | | | | | | | | | | | | | | | |
| Total Irrigated | | | | | | | | | | | | | | | |
| Cost of Repairs | | | | | | | | | | | | | | | |
| Cost of Superintendence | | | | | | | | | | | | | | | |
| Cost of Improvements | | | | | | | | | | | | | | | |
| Number of Acres Irrigated | 10,000 | 1,726 | 3,501 | 34 | 229 | 366 | 285 | 246 | 40 | 1,039 | 12,255 | \$ 4,690.06 | \$ 14,094.89 | \$ 205.00 | |
| Number of Acres Irrigated | 11,000 | 1,735 | 4,044 | 34 | 517 | 916 | 102 | 87 | 1,460 | 898 | 36,500 | | | 3,164.00 | |
| Number of Acres Irrigated | 12,000 | 1,745 | 4,587 | 34 | 628 | 1,342 | 345 | 175 | 2,336 | 1,696 | 18,328 | | | | 49,324.00 |
| Number of Acres Irrigated | 13,000 | 1,755 | 5,130 | 34 | 739 | 1,668 | 420 | 50 | 3,236 | 384 | 16,347 | | | | 308.70 |
| Number of Acres Irrigated | 14,000 | 1,765 | 5,673 | 34 | 850 | 2,000 | 500 | 100 | 4,136 | 466 | 18,347 | | | | 3,897.00 |
| Number of Acres Irrigated | 15,000 | 1,775 | 6,216 | 34 | 961 | 2,331 | 599 | 150 | 5,036 | 533 | 20,366 | | | | 4,000.20 |
| Number of Acres Irrigated | 16,000 | 1,785 | 6,759 | 34 | 1,072 | 2,662 | 698 | 200 | 5,936 | 606 | 22,385 | | | | 150.00 |
| Number of Acres Irrigated | 17,000 | 1,795 | 7,302 | 34 | 1,183 | 3,003 | 797 | 250 | 6,836 | 679 | 24,404 | | | | 4,000.00 |
| Number of Acres Irrigated | 18,000 | 1,805 | 7,845 | 34 | 1,294 | 3,334 | 896 | 300 | 7,736 | 752 | 26,423 | | | | 16,582.00 |
| Number of Acres Irrigated | 19,000 | 1,815 | 8,388 | 34 | 1,405 | 3,665 | 995 | 350 | 8,636 | 825 | 28,442 | | | | 10,986.00 |
| Number of Acres Irrigated | 20,000 | 1,825 | 8,931 | 34 | 1,516 | 4,006 | 1,094 | 400 | 9,536 | 898 | 30,461 | | | | 8,624.00 |
| Number of Acres Irrigated | 21,000 | 1,835 | 9,474 | 34 | 1,627 | 4,347 | 1,193 | 450 | 10,436 | 971 | 32,480 | | | | 9,415.00 |
| Number of Acres Irrigated | 22,000 | 1,845 | 10,017 | 34 | 1,738 | 4,688 | 1,292 | 500 | 11,336 | 1,044 | 34,509 | | | | |
| Number of Acres Irrigated | 23,000 | 1,855 | 10,560 | 34 | 1,849 | 5,029 | 1,391 | 550 | 12,236 | 1,117 | 36,528 | | | | |
| Number of Acres Irrigated | 24,000 | 1,865 | 11,103 | 34 | 1,960 | 5,370 | 1,490 | 600 | 13,136 | 1,190 | 38,547 | | | | |
| Number of Acres Irrigated | 25,000 | 1,875 | 11,646 | 34 | 2,071 | 5,711 | 1,589 | 650 | 14,036 | 1,263 | 40,566 | | | | |
| Number of Acres Irrigated | 26,000 | 1,885 | 12,189 | 34 | 2,182 | 6,052 | 1,688 | 700 | 14,936 | 1,336 | 42,585 | | | | |
| Number of Acres Irrigated | 27,000 | 1,895 | 12,732 | 34 | 2,293 | 6,393 | 1,787 | 750 | 15,836 | 1,409 | 44,604 | | | | |
| Number of Acres Irrigated | 28,000 | 1,905 | 13,275 | 34 | 2,404 | 6,734 | 1,886 | 800 | 16,736 | 1,482 | 46,623 | | | | |
| Number of Acres Irrigated | 29,000 | 1,915 | 13,818 | 34 | 2,515 | 7,075 | 1,985 | 850 | 17,636 | 1,555 | 48,642 | | | | |
| Number of Acres Irrigated | 30,000 | 1,925 | 14,361 | 34 | 2,626 | 7,416 | 2,084 | 900 | 18,536 | 1,628 | 50,661 | | | | |
| Number of Acres Irrigated | 31,000 | 1,935 | 14,904 | 34 | 2,737 | 7,757 | 2,183 | 950 | 19,436 | 1,701 | 52,680 | | | | |
| Number of Acres Irrigated | 32,000 | 1,945 | 15,447 | 34 | 2,848 | 8,098 | 2,282 | 1,000 | 20,336 | 1,774 | 54,709 | | | | |
| Number of Acres Irrigated | 33,000 | 1,955 | 16,000 | 34 | 2,959 | 8,439 | 2,381 | 1,050 | 21,236 | 1,847 | 56,728 | | | | |
| Number of Acres Irrigated | 34,000 | 1,965 | 16,543 | 34 | 3,070 | 8,780 | 2,480 | 1,100 | 22,136 | 1,920 | 58,747 | | | | |
| Number of Acres Irrigated | 35,000 | 1,975 | 17,086 | 34 | 3,181 | 9,121 | 2,579 | 1,150 | 23,036 | 1,993 | 60,766 | | | | |
| Number of Acres Irrigated | 36,000 | 1,985 | 17,629 | 34 | 3,292 | 9,462 | 2,678 | 1,200 | 23,936 | 2,066 | 62,785 | | | | |
| Number of Acres Irrigated | 37,000 | 1,995 | 18,172 | 34 | 3,403 | 9,803 | 2,777 | 1,250 | 24,836 | 2,139 | 64,804 | | | | |
| Number of Acres Irrigated | 38,000 | 2,005 | 18,715 | 34 | 3,514 | 10,144 | 2,876 | 1,300 | 25,736 | 2,212 | 66,823 | | | | |
| Number of Acres Irrigated | 39,000 | 2,015 | 19,258 | 34 | 3,625 | 10,485 | 2,975 | 1,350 | 26,636 | 2,285 | 68,842 | | | | |
| Number of Acres Irrigated | 40,000 | 2,025 | 19,801 | 34 | 3,736 | 10,826 | 3,074 | 1,400 | 27,536 | 2,358 | 70,861 | | | | |
| Number of Acres Irrigated | 41,000 | 2,035 | 20,344 | 34 | 3,847 | 11,167 | 3,173 | 1,450 | 28,436 | 2,431 | 72,880 | | | | |
| Number of Acres Irrigated | 42,000 | 2,045 | 20,887 | 34 | 3,958 | 11,508 | 3,272 | 1,500 | 29,336 | 2,504 | 74,899 | | | | |
| Number of Acres Irrigated | 43,000 | 2,055 | 21,430 | 34 | 4,069 | 11,849 | 3,371 | 1,550 | 30,236 | 2,577 | 76,918 | | | | |
| Number of Acres Irrigated | 44,000 | 2,065 | 21,973 | 34 | 4,180 | 12,190 | 3,470 | 1,600 | 31,136 | 2,650 | 78,937 | | | | |
| Number of Acres Irrigated | 45,000 | 2,075 | 22,516 | 34 | 4,291 | 12,531 | 3,569 | 1,650 | 32,036 | 2,723 | 80,956 | | | | |
| Number of Acres Irrigated | 46,000 | 2,085 | 23,059 | 34 | 4,402 | 12,872 | 3,668 | 1,700 | 32,936 | 2,796 | 82,975 | | | | |
| Number of Acres Irrigated | 47,000 | 2,095 | 23,602 | 34 | 4,513 | 13,213 | 3,767 | 1,750 | 33,836 | 2,869 | 84,994 | | | | |
| Number of Acres Irrigated | 48,000 | 2,105 | 24,145 | 34 | 4,624 | 13,554 | 3,866 | 1,800 | 34,736 | 2,942 | 87,013 | | | | |
| Number of Acres Irrigated | 49,000 | 2,115 | 24,688 | 34 | 4,735 | 13,895 | 3,965 | 1,850 | 35,636 | 3,015 | 89,032 | | | | |
| Number of Acres Irrigated | 50,000 | 2,125 | 25,231 | 34 | 4,846 | 14,236 | 4,064 | 1,900 | 36,536 | 3,088 | 91,051 | | | | |
| Number of Acres Irrigated | 51,000 | 2,135 | 25,774 | 34 | 4,957 | 14,577 | 4,163 | 1,950 | 37,436 | 3,161 | 93,070 | | | | |
| Number of Acres Irrigated | 52,000 | 2,145 | 26,317 | 34 | 5,068 | 14,918 | 4,262 | 2,000 | 38,336 | 3,234 | 95,089 | | | | |
| Number of Acres Irrigated | 53,000 | 2,155 | 26,860 | 34 | 5,179 | 15,259 | 4,361 | 2,050 | 39,236 | 3,307 | 97,108 | | | | |
| Number of Acres Irrigated | 54,000 | 2,165 | 27,403 | 34 | 5,290 | 15,600 | 4,460 | 2,100 | 40,136 | 3,380 | 99,127 | | | | |
| Number of Acres Irrigated | 55,000 | 2,175 | 27,946 | 34 | 5,401 | 15,941 | 4,559 | 2,150 | 41,036 | 3,453 | 101,146 | | | | |
| Number of Acres Irrigated | 56,000 | 2,185 | 28,489 | 34 | 5,512 | 16,282 | 4,658 | 2,200 | 41,936 | 3,526 | 103,165 | | | | |
| Number of Acres Irrigated | 57,000 | 2,195 | 29,032 | 34 | 5,623 | 16,623 | 4,757 | 2,250 | 42,836 | 3,599 | 105,184 | | | | |
| Number of Acres Irrigated | 58,000 | 2,205 | 29,575 | 34 | 5,734 | 16,964 | 4,856 | 2,300 | 43,736 | 3,672 | 107,203 | | | | |
| Number of Acres Irrigated | 59,000 | 2,215 | 30,118 | 34 | 5,845 | 17,305 | 4,955 | 2,350 | 44,636 | 3,745 | 109,222 | | | | |
| Number of Acres Irrigated | 60,000 | 2,225 | 30,661 | 34 | 5,956 | 17,646 | 5,054 | 2,400 | 45,536 | 3,818 | 111,241 | | | | |
| Number of Acres Irrigated | 61,000 | 2,235 | 31,204 | 34 | 6,067 | 17,987 | 5,153 | 2,450 | 46,436 | 3,891 | 113,260 | | | | |
| Number of Acres Irrigated | 62,000 | 2,245 | 31,747 | 34 | 6,178 | 18,328 | 5,252 | 2,500 | 47,336 | | | | | | |

IRRIGATION DIVISION No. 2
 Tabulation Showing Amount in Storage in Major Reservoirs, 1940—Amounts in Acre-Feet

| District | Name of Reservoir | Dec. 1939 | Jan. 1940 | Feb. 1940 | Mar. 1940 | Apr. 1940 | May 1940 | June 1940 | July 1940 | Aug. 1940 | Sept. 1940 | Oct. 1940 | Nov. 1940 |
|----------|--------------------------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|------------|-----------|-----------|
| 10 | Fountain Valley No. 2 | 560 | 564 | 708 | 963 | 1,014 | 1,014 | 1,496 | 1,224 | 912 | 151 | 391 | 532 |
| 10 | Fountain Valley No. 3 | 36 | 27 | 195 | 175 | 46 | 46 | 46 | 46 | 27 | 14 | 20 | 20 |
| 10 | Spring Run No. 2 | 53 | 53 | 127 | 152 | 164 | 192 | 192 | 95 | 127 | 85 | 152 | 127 |
| 10 | Calahan | 5 | 5 | 5 | 5 | 5 | 5 | 269 | 145 | 47 | 85 | 85 | 85 |
| 10 | Cheyenne Mountain | 28 | 28 | 28 | 28 | 28 | 28 | 95 | 28 | 28 | 13 | 46 | 46 |
| 10 | Monument | 85 | 85 | 85 | 85 | 71 | 58 | 447 | 404 | 178 | 169 | 178 | 178 |
| 11 | Sugar Loaf | 1,508 | 1,508 | 1,692 | 1,692 | 1,692 | 1,692 | 4,044 | 7,253 | 4,944 | 3,350 | 3,075 | 3,115 |
| 11 | Twin Lakes | 15,771 | 15,805 | 15,591 | 15,591 | 15,591 | 20,919 | 23,496 | 23,496 | 17,567 | 9,975 | 10,683 | 10,683 |
| 11 | Clear Creek | 776 | 1,006 | 1,006 | 1,006 | 1,006 | 1,006 | 931 | 931 | 493 | 135 | 337 | 376 |
| 12 | Skaguay | 1,086 | 1,109 | 835 | 520 | 177 | 189 | 91 | 0 | 315 | 393 | 501 | 878 |
| 12 | Mount Pisgah | 127 | 127 | 127 | 380 | 315 | 315 | 433 | 433 | 393 | 398 | 413 | 951 |
| 12 | Brush Hollow | 109 | 109 | 109 | 895 | 1,530 | 1,975 | 1,634 | 1,076 | 453 | 76 | 230 | 1,850 |
| 12 | City of Colorado Springs | 1,823 | 1,823 | 576 | 1,726 | 597 | 1,430 | 692 | 500 | 277 | 551 | 220 | 491 |
| 13 | Dye-Deweesee | 0 | 0 | 576 | 576 | 591 | 555 | 949 | 500 | 289 | 373 | 889 | 828 |
| 14 | Teller | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | Lake Henry | 1,128 | 969 | 2,630 | 5,617 | 5,469 | 4,384 | .... | 3,858 | 4,031 | 3,186 | 2,530 | 1,849 |
| 14 | Lake Meredith | 0 | 0 | 0 | 0 | .... | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | Beckwith | 63 | 63 | 86 | 101 | 420 | 420 | 424 | 337 | 143 | 110 | 107 | 166 |
| 15 | Minnequa | 1,355 | 1,389 | 1,385 | 1,188 | 1,215 | 1,241 | 1,288 | 1,156 | 1,053 | 971 | 2,749 | 2,734 |
| 15 | C. F. & I. No. 2 | 2,757 | 2,682 | 2,679 | 2,651 | 2,677 | 2,699 | 2,699 | 2,699 | 2,701 | 2,725 | 2,749 | 2,738 |
| 15 | C. F. & I. No. 3 | 4,574 | 4,363 | 2,003 | 3,209 | 3,478 | 3,133 | 3,808 | 3,546 | 3,961 | 4,081 | 4,484 | 4,443 |
| 16 | Coler | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | Cucharas | 248 | 224 | 419 | 419 | 419 | 419 | 542 | 322 | 322 | 322 | 322 | 322 |
| 16 | Bradford | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | Huerfano Valley | 0 | 0 | 0 | .... | 903 | 854 | 456 | 0 | 0 | 0 | 0 | 0 |
| 16 | Crane Holmes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | Lindsley Lake | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | Holita | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | Valdez | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | Dotson | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | Dye | 0 | 0 | 40 | 136 | 110 | 0 | 244 | 0 | 205 | 0 | 0 | 0 |
| 17 | Holbrook No. 1 | 0 | 0 | 1,324 | 3,324 | 2,885 | 2,716 | 1,621 | 552 | 0 | 0 | 0 | 0 |
| 17 | Horse Creek | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | Adobe | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | Seven Lakes | 75 | 50 | 50 | 35 | 35 | 32 | 30 | 0 | 0 | 0 | 0 | 0 |
| 18 | Model | 0 | 0 | 468 | 1,207 | 1,273 | 1,307 | 834 | 0 | 0 | 0 | 0 | 0 |
| 19 | Hermosa | 0 | 0 | 0 | 0 | 0 | 0 | 500 | 0 | 0 | 0 | 1,202 | 1,406 |
| 19 | North Lake | 636 | .... | 490 | 405 | 366 | 328 | 631 | 872 | 872 | 874 | 867 | 837 |
| 67 | Nee No Shee | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67 | Nee Gronda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67 | Nee Sopah | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67 | Nee Skah (Queen) | 1,901 | 1,815 | 1,815 | 1,987 | 2,159 | 1,815 | 1,556 | 0 | 0 | 0 | 0 | 0 |
| 67 | Two Buttes | 14,772 | 14,172 | 14,157 | 14,320 | 14,229 | 14,157 | 12,794 | 11,762 | 8,555 | 9,920 | 9,660 | 6,305 |
| 67 | Thurston | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | San Isabel | 1,040 | 1,040 | 1,041 | 1,041 | 1,040 | 1,040 | 1,043 | 1,040 | 1,040 | 1,039 | 1,040 | 1,041 |

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 3 FOR THE SEASON OF 1939

Alamosa, Colorado, November 10, 1939.

Mr. M. C. Hinderlider
State Engineer
Denver, Colorado

Dear Sir:

I submit, herewith, my annual report of crop and water conditions in Division No. 3 for the year 1939.

This was a very backward spring, with killing frost during May and June, and, as a result, crops got a late start and heavy damage resulted to alfalfa, potatoes and market garden peas. The first planting of garden peas was a complete failure. The yield of potatoes was curtailed as a result of the late frosts, and the first planting of cauliflower was destroyed. Only July and August were without killing frost.

Soil conditions in the early season were excellent for seed germination, but later, especially during July, owing to drying wind, heat and shortage of water for irrigation and the absence of the usual precipitation, many crops suffered to the extent of 25% to 50%.

Storage water in the larger reservoirs on May first was above the ten-year average, but by August first was reduced to 35% of normal, and the season ended with the lowest amount in storage since 1934. The season ended with 14,759 acre feet, of which 6,000 acre feet are in storage for fish culture.

The precipitation for this season was only 55% of the normal record. This, together with a less than normal snowfall in the high areas and the very light water content of the snow caused a water shortage for direct irrigation, and, as a result, practically all junior rights were shut off in June, causing a heavy crop loss.

Owing to early melting of snow and shortage of rainfall on the high ranges during the early grazing season, livestock suffered considerably and as a result of this condition many herds were brought out two to three weeks earlier than usual.

Yours very truly,

WALTER D. CARROLL,
Irrigation Division Engineer.

WATER COMMISSIONER'S CROP AND DITCH REPORT

| Water District | No. of Priorities Reported | First Day Water Was Used | Last Day Water Was Used | Maximum No. Days Water Diverted from Stream |
|----------------|----------------------------|--------------------------|-------------------------|---|
| 20 | 419 | Apr. 1 | Nov. 15 | 214 |
| 21 | 76 | Apr. 1 | Oct. 31 | 216 |
| 22 | 187 | Mar. 26 | Oct. 31 | 217 |
| 24 | 98 | Mar. 1 | Oct. 31 | 252 |
| 25 | 96 | Apr. 1 | Oct. 31 | 213 |
| 26 | 116 | Apr. 1 | Oct. 31 | 203 |
| 27 | 77 | Mar. 17 | Oct. 31 | 190 |
| 35 | 70 | Apr. 1 | Oct. 17 | 193 |

| Water District | No. Acre Feet Used by All Ditches from Natural Stream | Total No. of Acres That Can Be Irrigated | No. Acres of Alfalfa | Natural Grasses |
|----------------|---|--|----------------------|-----------------|
| 20 | 464,669 | 518,225 | 42,369 | 57,327 |
| 21 | 63,768 | 62,906 | 5,396 | 17,091 |
| 22 | 252,648 | 150,045 | 11,151 | 27,196 |
| 24 | 38,771 | 23,256 | 4,680 | 2,950 |
| 25 | 46,104 | 90,847 | 1,850 | 23,098 |
| 26 | 36,826 | 54,407 | 2,848 | 26,275 |
| 27 | 9,496 | 9,100 | 885 | 2,108 |
| 35 | 82,488 | 48,774 | 3,373 | 15,545 |
| Totals | 994,770 | 957,560 | 72,552 | 171,590 |

| Water Dist. | Cereals | Pasture | Market Garden Peas | Potatoes | Beans |
|-------------|---------|---------|--------------------|----------|-------|
| 20 | 47,534 | 117,758 | 2,441 | 32,331 | 44 |
| 21 | 6,406 | 1,202 | 2,795 | 3,179 | 969 |
| 22 | 17,506 | 18,429 | 2,799 | 2,550 | 1,047 |
| 24 | 9,515 | 2,700 | 294 | 741 | 2,436 |
| 25 | 543 | 56,112 | .... | 20 | 2 |
| 26 | 638 | 12,621 | .... | 66 | .... |
| 27 | 282 | 1,810 | 27 | 387 | 21 |
| 35 | 2,719 | 2,563 | 895 | 154 | 185 |
| Totals | 85,143 | 213,195 | 9,251 | 39,428 | 4,704 |

| Water Dist. | Field Peas | Cabbage | Sugar Beets | Sweet Clover | Other Crops |
|-------------|------------|---------|-------------|--------------|-------------|
| 20 | 14,860 | .... | 1,861 | 41,772 | 15,387 |
| 21 | 3,662 | .... | 87 | 3,763 | 969 |
| 22 | 6,267 | .... | 609 | 10,631 | 2,364 |
| 24 | 7,884 | 178 | 112 | .... | 5,442 |
| 25 | .... | .... | .... | 66 | 9 |
| 26 | .... | .... | .... | .... | .... |
| 27 | 265 | .... | .... | 102 | .... |
| 35 | 2,405 | .... | 43 | .... | 621 |
| Totals | 35,343 | 178 | 2,712 | 56,334 | 24,792 |

| Water District | Total Acres Irrigated | Cost of Administration Water Commissioners and Deputies | Cost of Superintendence | Cost of Repairs | Cost of Improvements |
|----------------|-----------------------|---|-------------------------|-----------------|----------------------|
| 20 | 373,684 | \$ 2,475.00 | \$ 6,085.00 | \$ 4,159.00 | \$ 1,642.00 |
| 21 | 45,519 | 1,599.00 | 150.00 | 290.00 | ..... |
| 22 | 100,549 | 1,518.00 | ..... | ..... | ..... |
| 24 | 36,932 | 2,000.00 | 2,355.00 | 655.00 | 15.00 |
| 25 | 81,700 | 1,266.00 | 1,200.00 | 2,635.00 | 2,400.00 |
| 26 | 42,448 | 1,260.00 | ..... | ..... | ..... |
| 27 | 5,997 | 1,314.00 | ..... | 65.00 | 5.00 |
| 35 | 28,503 | 1,020.00 | ..... | ..... | ..... |
| Totals | 715,332 | | | | |

| | Comparison of Total Acres Irrigated | Comparison of Cost of Administration Expenses, Water Commissioners, and Deputies |
|------|-------------------------------------|--|
| 1932 | 705,781 | \$12,376.00 |
| 1933 | 880,934 | 11,427.00 |
| 1934 | 638,766 | 13,251.00 |
| 1935 | 755,724 | 13,893.00 |
| 1936 | 663,724 | 11,690.00 |
| 1937 | 646,082 | 15,580.00 |
| 1938 | 702,392 | 13,145.00 |
| 1939 | 715,332 | 12,452.00=1.96 cents per acre |

WATER COMMISSIONER'S RESERVOIR REPORT

| District No. | Capacity in Acre Feet in All Reservoirs | Quantity of Water in Acre Feet in Reservoirs May, 1939 | Quantity of Water in Acre Feet in Reservoirs Nov., 1939 | First Day Water Used from Reservoirs | Last Day Water Used from Reservoirs | Maximum No. Days Water Used from Reservoirs | Total No. Acre Feet Water Used from Reservoirs |
|--------------|---|--|---|--------------------------------------|-------------------------------------|---|--|
| 20 | 134,483 | 63,940 | 5,574 | April 14 | Sept. 21 | 135 | 59,344 |
| 21 | 31,752 | 11,486 | 119 | June 5 | Sept. 7 | 94 | 11,365 |
| 22 | 9,710 | 5,160 | 0 | April 2 | July 15 | 105 | 7,428 |
| 24 | 112,563 | 24,861 | 6,635 | May 6 | Oct. 6 | 153 | 38,626 |
| 35 | 25,483 | 15,159 | 2,431 | May 1 | Oct. 7 | 153 | 23,008 |
| Totals | 313,991 | 120,635 | 14,759 | | | | 139,771 |

COMPARISON ACRE FEET CARRIED FROM RESERVOIRS

COMPARISON OF ACRE FEET IN RESERVOIRS

| | May 1 | Nov. 1 |
|------|---------|--------|
| 1932 | 147,101 | 42,211 |
| 1933 | 97,058 | 29,080 |
| 1934 | 62,391 | 11,087 |
| 1935 | 102,537 | 64,361 |
| 1936 | 111,807 | 43,294 |
| 1937 | 149,247 | 36,060 |
| 1938 | 131,930 | 82,051 |
| 1939 | 139,771 | 14,759 |

WATER COMMISSIONER'S RESERVOIR REPORT

—Continued

AMOUNT OF WATER, IN ACRE FEET, IN STORAGE, ON FIRST DAY OF EACH MONTH, FROM DECEMBER 1, 1938, TO NOVEMBER 1, 1939

| | Rio Grande Reservoir Cap. 51,113 | Santa Maria Reservoir Cap. 42,000 | Continental Reservoir Cap. 26,716 | Sanchez Reservoir Cap. 103,155 |
|---------|--|---|---|--------------------------------------|
| 12-1-38 | 31,054 | 11,560 | 4,570 | 18,087 |
| 1-1-39 | 33,249 | 11,390 | 5,100 | 18,087 |
| 2-1-39 | 34,181 | 11,875 | 5,100 | 17,891 |
| 3-1-39 | 35,580 | 12,300 | 5,100 | 17,648 |
| 4-1-39 | 36,502 | 13,125 | 5,100 | 19,606 |
| 5-1-39 | 36,750 | 15,051 | 6,562 | 22,897 |
| 6-1-39 | 34,049 | 17,851 | 6,379 | 25,407 |
| 7-1-39 | 16,755 | 11,581 | 4,746 | 16,468 |
| 8-1-39 | 0 | 2,231 | 3,071 | 7,523 |
| 9-1-39 | 0 | 0 | 1,767 | 5,870 |
| 10-1-39 | 0 | 0 | 1,220 | 5,061 |
| 11-1-39 | 0 | 0 | 1,050 | 6,077 |

| | Terrace Reservoir Cap. 17,700 | La Jara Reservoir Cap. 14,052 | Mountain Home Reservoir Cap. 19,150 | Smith Reservoir Cap. 6,212 |
|---------|-------------------------------------|-------------------------------------|---|----------------------------------|
| 12-1-38 | 5,299 | 2,781 | 6,700 | 4,191 |
| 1-1-39 | 5,299 | 2,165 | 6,700 | 5,336 |
| 2-1-39 | 5,608 | 1,921 | 7,325 | 5,336 |
| 3-1-39 | 5,948 | 1,753 | 7,655 | 5,336 |
| 4-1-39 | 6,838 | 2,311 | 8,706 | 5,336 |
| 5-1-39 | 7,526 | 3,960 | 9,853 | 5,336 |
| 6-1-39 | 6,906 | 3,709 | 10,260 | 5,336 |
| 7-1-39 | 5,162 | 2,009 | 6,700 | 2,925 |
| 8-1-39 | 2,989 | 610 | 2,436 | 1,195 |
| 9-1-39 | 735 | 119 | 1,096 | 539 |
| 10-1-39 | 0 | 119 | 1,252 | 691 |
| 11-1-39 | 0 | 119 | 1,650 | 781 |

| | Cove Lake Reservoir Cap. 9,710 | Salazar No. 1 Reservoir Cap. 100 | Salazar No. 2 Reservoir Cap. 40 |
|---------|--------------------------------------|--|---------------------------------------|
| 12-1-38 | 0 | .... | .... |
| 1-1-39 | 0 | .... | .... |
| 2-1-39 | 0 | .... | .... |
| 3-1-39 | 0 | .... | .... |
| 4-1-39 | 540 | .... | .... |
| 5-1-39 | 5,160 | .... | 0 |
| 6-1-39 | 5,514 | .... | .... |
| 7-1-39 | 1,962 | .... | .... |
| 8-1-39 | 0 | .... | .... |
| 9-1-39 | 0 | .... | .... |
| 10-1-39 | 0 | .... | .... |
| 11-1-39 | 0 | .... | 0 |

| | Archuleta Reservoir Cap. 97 | Hunters Lake Res. Cap. 48 | Spruce Lake Res. No. 1 Cap. 88 | Spruce Lake Res. No. 2 Cap. 93 |
|--------|-----------------------------------|---------------------------------|--------------------------------------|--------------------------------------|
| May 1 | 97 | 18 | 88 | 93 |
| Nov. 1 | 0 | 0 | 0 | 0 |

| | Dude Ranch Reservoir Cap. 125 | Road Canon Reservoir Cap. 2,800 | Poage Cap. 260 | Lost Lakes Reservoir Cap. 1,066 |
|--------|-------------------------------------|---------------------------------------|-------------------|---------------------------------------|
| May 1 | 125 | 2,800 | 260 | 505 |
| Nov. 1 | .... | 2,650 | 0 | 0 |

| | Shaw Reservoir Cap. 638 | Bristol Head Res. No. 1 Cap. 153 | Bristol Head Res. No. 2 | Beaver Park Reservoir Cap. 4,434 |
|-------------|---------------------------------------|--|---------------------------------------|---|
| May 1..... | 320 | 92 | 225 | 424 |
| Nov. 1..... | 0 | 0 | 0 | 0 |
| | Regan Lake Reservoir Cap. 1,200 | Chenoweth Reservoir Cap. 40 | Eastdale Res. No. 1 Cap. 3,468 | Eastdale Res. No. 2 Cap. 3,047 |
| May 1..... | 200 | 40 | 1,924 | 0 |
| Nov. 1..... | 200 | 40 | 508 | 0 |
| | Goin's Lake Reservoir Cap. 40 | Humphries Reservoir Cap. 842 | Trout Lake Reservoir Cap. 198 | Wright's Lake or Spring Creek Res. Cap. 120 |
| May 1..... | 40 | 842 | 198 | 120 |
| Nov. 1..... | 0 | 675 | 0 | 120 |
| | Ruby Lake Reservoir Cap. 120 | Hermit Lake Res. No. 1 | Hermit Lake Res. No. 2 Cap. 360 | Grace Lake Reservoir Cap. 605 |
| May 1..... | 120 | 423 | 360 | 605 |
| Nov. 1..... | 120 | 423 | 360 | 605 |
| | Sowards Lake Reservoir | Goose Creek Reservoir Cap. 231 | Wee Ruby Reservoir Cap. 150 | Brown's Lake or Troutvale Reservoir Cap. 510 |
| May 1..... | 200 | 231 | 134 | 510 |
| Nov. 1..... | 160 | 0 | 0 | 510 |
| | Fuchs Reservoir Cap. 200 | Squaw Pass Reservoir Cap. 85 | Powell Reservoir Cap. 21 | Metroz Reservoir Cap. 96 |
| May 1..... | 30 | 85 | 21 | 96 |
| Nov. 1..... | 0 | 0 | 0 | 29 |

Potatoes

This year's estimated acreage of potatoes is 75% of normal, and the yield about 75%. The quality is good, and the price fair. There was a slight damage from Psylid, which has been controlled to some extent by spraying. The drouth was responsible for a 10% loss.

A bacteria wilt, a new disease recently developed, was a further cause of loss and up till now, no remedy has been able to control the disease. Clean seed from unaffected ground and rotation of land seems to help.

Shipments by rail and truck were 5,008 cars with 2,500 cars in storage. Price is \$1.00. Demand is good.

Mixed Vegetables Shipments

These shipments contained all varieties of vegetable products raised in the Valley and were made up of spinach, cauliflower,

lettuce, garden peas, broccoli, snap beans, carrots, etc. These were early shipments sent out before the straight cars were available. There were 532 cars.

Head Lettuce

The acreage of head lettuce was normal and yield good, quality was good on first cutting, but hot dry weather at the later season caused the heads to go to seed. Price was fair. There were 359 cars shipped.

Cauliflower

The acreage of cauliflower was much larger than the average, and condition excellent. The market started out at 55c-60c per crate, but broke in mid-season and the price dropped to 25c. The Surplus Commodity bought 50 cars in an effort to stabilize the price, but to no avail. 958 cars were shipped.

Field Peas

The acreage and yield of field peas was normal. The black leg or root rot made some inroads on the yield. No treatment as yet has been able to control this disease. Clean seed and new ground is the only remedy so far. The price of \$2.75 per cwt. prevails, but the demand is mostly local for seed. Texas and Northern Colorado are our best markets.

Sugar Beets

The yield was below normal owing to shortage of water. The sugar content was 18% but the average yield was only 7 tons per acre. Some excellent yields were made where water was pumped—as high as 15 tons per acre. 417 cars were shipped.

Cabbage

Acreage and yield was normal and price, \$12 per ton, made good money for the farmer. There was a good demand. Some damage caused by aphid and some worm damage.

There were 490 cars shipped.

Market Garden Peas

The acreage of market garden peas was slightly below normal on account of the Triple A restrictions, and the yield was short owing to a heavy freeze which practically cut off the early picking. However, the later planting came on in good shape and

quality was excellent. Price was very satisfactory opening at 4½¢ then dropping to 2¢. The canning factory took all the culls, so there was no loss in marketing.

There were 892 cars shipped.

Cereals

Oats and barley acreage normal. Yield was lower than the average, due to an early frost and drouth.

Wheat was 80% of normal yield.

Alfalfa

The yield of alfalfa is 70% normal, due to heavy loss on first cutting caused by a freeze in July, also to the inroads caused by grasshoppers. In some cases first cutting was a total failure. The second cutting was normal with price at \$9.00 in the stack and a good demand is anticipated on account of a short wild hay crop locally also. Especially short crop in New Mexico and the San Juan Basin will cause requirement for this product.

The wild hay crop in the Valley is only 50% of normal and will be in good demand for local livestock.

Sweet Clover

The sweet clover acreage is normal but the yield was cut materially by the July freeze and grasshoppers. The seed crop is above normal, but the price of 3¢ per pound and poor market has caused the storage of practically the entire crop. The usual turn-under for fertilization was not had this season on account of dry weather; farmers could not plow it under.

THE TOTAL CAR LOT AND TRUCK SHIPMENT SO FAR THIS SEASON IS:

| | |
|-------------------------|-------|
| Cauliflower | 958 |
| Market Garden Peas..... | 892 |
| Mixed Car Loads..... | 532 |
| Spinach | 19 |
| Head Lettuce..... | 359 |
| Cabbage | 490 |
| Potatoes | 5,008 |
| Sugar Beets..... | 417 |
| Total | 8,675 |

Grasshoppers

A campaign of extermination was put on. There were 3,936 acres of crops damaged by grasshoppers. Damage was estimated at \$42,480. 21,800 acres protected by the poison. Saving estimated at \$56,300.

142½ tons poison used, spread in Alamosa County. Nine bait spreaders were used. Largest damage done to alfalfa and sweet clover, estimated at 20%, sweet clover loss at \$1,600 and alfalfa at \$1,500. The loss was principally confined to Alamosa County. Grasshopper eggs were laid in September and it is thought the poison campaign, parasites and diseases, brought the pests under control by August first, and left few adults to lay eggs for coming season.

Municipal Water Supply

The usual shortage of municipal water supply occurred during the midsummer, when the load was heaviest owing to demand for sprinkling and garden irrigation, especially in Antonito and Del Norte, where the service had to be restricted to household requirements during July and August. These towns are supplied by gravity lines from filtration systems from the streams above.

In all other municipalities, artesian water is used and the supply for all purposes was adequate.

Betterments and Repairs

A thorough overhauling of the valve system on the Santa Maria Reservoir is now under way. When completed, the system will be in first class working order.

Also repairs on the intake pipe line.

Spillway on the Farmers Union Reservoir has been repaired.

Work is now under way on the Beaver Dam Reservoir. Work on the tower, valves and bridge. Drainage tunnel has been filled with loose rock.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 3 FOR THE SEASON OF 1940.

Alamosa, Colorado, November 25, 1940.

Mr. M. C. Hinderlider
State Engineer
Denver, Colorado

Dear Sir:

Following is a report of stream diversion, storage and crop conditions in Division No. 3, for the year 1940. As a result of an extremely dry season in 1939 and a sub-normal snowfall for the 1939-40 season, a serious condition confronted the water users over the division. The snowfall was only 50% of normal and the water content was proportionately deficient. Soil conditions were so bad that irrigation was necessary before planting, resulting in late seeding. The runoff of most streams on the west range was early and practically all junior ditches were shut down by the middle of June, at a time when most needed to mature the crops.

The runoff of streams heading on the Continental Divide was about 50% normal while the storage on the water shed one of the lowest in many years, only equalled in 1934. The water condition on the Sangre de Cristo shed, however, was much more satisfactory and resulted in normal yields and quality.

Storage water delivered to ditches this season was 57,975 acre feet as compared with a ten-year average of 117,718 acre feet. This is a record for low storage. Amount in storage on May 1st, was 36,906 acre feet and on November 1st, 12,113 acre feet, of which 6,000 acre feet is used for fish culture and not available for irrigation.

Respectfully,

WALTER D. CARROLL,
Irrigation Division Engineer, Division No. 3.

WATER COMMISSIONER'S CROP AND DITCH REPORT

| Water District | No. of Priorities Reported | First Day Water Was Used | Last Day Water Was Used | Maximum No. Days Water Diverted from Stream |
|----------------|----------------------------|--------------------------|-------------------------|---|
| 20..... | 419 | Mar. 1 | Nov. 9 | 260 |
| 21..... | 76 | Mar. 1 | Oct. 31 | 286 |
| 22..... | 187 | Mar. 1 | Oct. 31 | 250 |
| 24..... | 98 | Mar. 1 | Oct. 31 | 246 |
| 25..... | 96 | Apr. 1 | Oct. 31 | 218 |
| 26..... | 116 | Apr. 1 | Oct. 31 | 209 |
| 27..... | 77 | Apr. 1 | Oct. 25 | 237 |
| 35..... | 70 | Apr. 1 | Nov. 14 | 228 |

WATER COMMISSIONER'S CROP AND DITCH REPORT
—Continued

| Water District | No. Acre Feet Used by All Ditches from Natural Stream | Total No. Acres That Can Be Irrigated | No. Acres of Alfalfa | Natural Grasses |
|----------------|---|---------------------------------------|----------------------|-----------------|
| 20 | 333,146 | 488,813 | 43,571 | 55,000 |
| 21 | 57,860 | 70,305 | 5,076 | 17,340 |
| 22 | 234,141 | 175,828 | 10,396 | 27,441 |
| 24 | 34,103 | 23,035 | 2,095 | 3,615 |
| 25 | 29,770 | 34,798 | 1,772 | 28,762 |
| 26 | 12,412 | 59,167 | 3,066 | 26,645 |
| 27 | 3,286 | 9,650 | 637 | 2,825 |
| 35 | 64,123 | 46,004 | 3,112 | 14,264 |
| Totals | 769,141 | 967,600 | 69,725 | 175,892 |

| Water Dist. | Cereals | Pasture | Market Garden Peas | Potatoes | Beans |
|-------------|---------|---------|--------------------|----------|-------|
| 20 | 55,356 | 117,292 | 2,492 | 29,944 | 47 |
| 21 | 7,116 | .... | 4,217 | 2,182 | 978 |
| 22 | 19,252 | 21,090 | 3,109 | 1,381 | 976 |
| 24 | 5,540 | 580 | 75 | 350 | 1,295 |
| 25 | 433 | 24,322 | 28 | 39 | 7 |
| 26 | 375 | 15,364 | .... | 23 | .... |
| 27 | 105 | 974 | 88 | 286 | 20 |
| 35 | 2,756 | 3,234 | 839 | 120 | 382 |
| Totals | 90,933 | 182,856 | 10,848 | 34,325 | 3,705 |

| Water Dist. | Field Peas | Cabbage | Sweet Clover | Other Crops |
|-------------|------------|---------|--------------|-------------|
| 20 | 12,892 | 59 | 35,050 | 16,622 |
| 21 | 2,228 | 174 | 1,996 | 746 |
| 22 | 3,949 | 192 | 9,413 | 2,700 |
| 24 | 3,225 | 260 | 115 | 2,600 |
| 25 | .... | .... | 66 | .... |
| 26 | .... | .... | .... | 10 |
| 27 | 100 | .... | 121 | 80 |
| 35 | 2,655 | 601 | 32 | 97 |
| Totals | 25,049 | 1,286 | 46,793 | 22,855 |

| Water District | Total Acres Irrigated | Cost of Administration Water Comm'rs and Deputies | Cost of Superintendence | Cost of Repairs | Cost of Improvements |
|----------------|-----------------------|---|-------------------------|-----------------|----------------------|
| 20 | 368,325 | \$ 3,098.00 | \$ 4,416.00 | \$ 1,567.00 | \$ 6,451.00 |
| 21 | 42,053 | 1,822.00 | .... | .... | .... |
| 22 | 99,899 | 1,360.00 | .... | .... | .... |
| 24 | 19,750 | 2,358.00 | 2,190.00 | 275.00 | 1,190.00 |
| 25 | 55,429 | 1,374.00 | 400.00 | 450.00 | 980.00 |
| 26 | 45,483 | 1,416.00 | .... | .... | .... |
| 27 | 5,236 | 1,494.00 | .... | 105.00 | 240.00 |
| 35 | 28,092 | 1,104.00 | .... | .... | .... |
| Totals | 664,267 | *\$14,026.00 | \$ 7,006.00 | \$ 2,397.00 | \$ 8,861.00 |

*\$0.21 per acre.

| Comparison of Total Acres Irrigated | | Comparison of Cost of Administration Expenses, Water Commissioners, and Deputies | |
|-------------------------------------|---------|--|--|
| 1932 | 705,781 | | |
| 1933 | 880,934 | | |
| 1934 | 638,766 | | |
| 1935 | 755,724 | | |
| 1936 | 663,724 | | |
| 1937 | 646,082 | | |
| 1938 | 702,392 | | |
| 1939 | 715,332 | | |
| 1940 | 664,267 | | |

COMPARISON OF ACRE FEET OF WATER DELIVERED TO DITCHES AND STREAMS

| | | | |
|------|-----------|------|-----------|
| 1932 | 1,223,321 | 1936 | 1,157,522 |
| 1933 | 1,086,786 | 1937 | 1,110,519 |
| 1934 | 700,740 | 1938 | 1,371,624 |
| 1935 | 1,589,432 | 1939 | 994,770 |
| | | 1940 | 769,141 |

WATER COMMISSIONER'S RESERVOIR REPORT

| District No. | Capacity in Acre Feet in All Reservoirs | Quantity of Water in Acre Feet in Reservoirs May, 1940 | Quantity of Water in Acre Feet in Reservoirs Nov., 1940 | First Day Water Used from Reservoirs | Last Day Water Used from Reservoirs | Maximum No. Days Water Used from Reservoirs | Total No. Acre Feet Water Used from Reservoirs |
|--------------|---|--|---|--------------------------------------|-------------------------------------|---|--|
| 20 | 134,516 | 17,148 | 4,268 | May 13 | Nov. 9 | 70 | 11,711 |
| 21 | 31,752 | 2,287 | 0 | June 13 | Aug. 8 | 67 | 1,704 |
| 22 | 7,910 | 2,255 | 0 | April 28 | Aug. 10 | 120 | 4,996 |
| 24 | 104,000 | 8,902 | 5,902 | May 9 | Oct. 2 | 150 | 28,822 |
| 35 | 25,483 | 8,569 | 1,943 | April 10 | Oct. 21 | 174 | 10,742 |
| Totals | 303,661 | 39,161 | 12,113 | | | | 57,975 |

COMPARISON ACRE FEET CARRIED FROM RESERVOIRS

| | |
|------|---------|
| 1932 | 147,101 |
| 1933 | 97,058 |
| 1934 | 62,391 |
| 1935 | 102,537 |
| 1936 | 111,807 |
| 1937 | 149,247 |
| 1938 | 131,930 |
| 1939 | 139,771 |
| 1940 | 57,975 |

COMPARISON OF ACRE FEET IN RESERVOIRS

| | May 1 | Nov. 1 |
|------|---------|--------|
| 1932 | 41,488 | 42,211 |
| 1933 | 56,875 | 29,080 |
| 1934 | 47,489 | 11,087 |
| 1935 | 28,216 | 64,361 |
| 1936 | 84,419 | 43,294 |
| 1937 | 79,910 | 36,060 |
| 1938 | 93,520 | 82,051 |
| 1939 | 120,635 | 14,759 |
| 1940 | 39,161 | 12,113 |

AMOUNT OF WATER, IN ACRE FEET, IN STORAGE, ON FIRST DAY OF EACH MONTH, FROM DECEMBER 1, 1939, TO NOVEMBER 1, 1940

| | Rio Grande Reservoir Cap. 51,113 | Santa Maria Reservoir Cap. 42,000 | Continental Reservoir Cap. 26,716 | Sanchez Reservoir Cap. 103,155 |
|---------|----------------------------------|-----------------------------------|-----------------------------------|--------------------------------|
| 12-1-39 | ..... | 1,104 | ..... | 6,718 |
| 1-1-40 | ..... | 1,900 | ..... | 7,084 |
| 2-1-40 | ..... | 2,618 | ..... | 7,211 |
| 3-1-40 | 4,137 | 3,357 | ..... | 7,271 |
| 4-1-40 | 5,342 | 3,805 | ..... | 8,100 |
| 5-1-40 | 4,727 | 3,823 | 2,531 | 10,909 |
| 6-1-40 | Dry | 3,682 | 2,201 | 21,429 |
| 7-1-40 | Dry | 1,882 | 1,027 | 12,814 |
| 8-1-40 | Dry | 1,199 | 480 | 5,169 |
| 9-1-40 | Dry | 1,021 | 118 | 2,708 |
| 10-1-40 | Dry | 1,134 | Dry | 3,683 |
| 11-1-40 | Dry | 720 | Dry | 5,061 |

AMOUNT OF WATER, IN ACRE FEET, IN STORAGE, ON FIRST DAY OF EACH MONTH, FROM DECEMBER 1, 1939, TO NOVEMBER 1, 1940

| | Terrace Reservoir Cap. 17,700 | La Jara Reservoir Cap. 14,052 | Mountain Home Reservoir Cap. 19,150 | Smith Reservoir Cap. 6,212 |
|---------|----------------------------------|----------------------------------|--|-------------------------------|
| 12-1-39 | 0 | 119 | 1,650 | 781 |
| 1-1-40 | 456 | 119 | 2,888 | 1,591 |
| 2-1-40 | 1,205 | 119 | 2,970 | 1,996 |
| 3-1-40 | 1,755 | 119 | 3,240 | 2,805 |
| 4-1-40 | 2,150 | 547 | 3,395 | 3,852 |
| 5-1-40 | 1,740 | 547 | 4,194 | 4,597 |
| 6-1-40 | 2,163 | 547 | 6,379 | 3,240 |
| 7-1-40 | 1,700 | 500 | 4,275 | 1,751 |
| 8-1-40 | 735 | 50 | 1,574 | 1,123 |
| 9-1-40 | 0 | 20 | 1,309 | 1,033 |
| 10-1-40 | 0 | 20 | 1,079 | 1,123 |
| 11-1-40 | 0 | 20 | 1,252 | 691 |

| | Cove Lake Reservoir Cap. 9,710 | Salazar No. 1 Reservoir Cap. 120 | Salazar No. 2 Reservoir Cap. 40 |
|---------|-----------------------------------|-------------------------------------|------------------------------------|
| 12-39 | 0 | 0 | 0 |
| 1-1-40 | 0 | 0 | 0 |
| 2-1-40 | 0 | 0 | 0 |
| 3-1-40 | 0 | 80 | 0 |
| 4-1-40 | 0 | 100 | 0 |
| 5-1-40 | 2,255 | 120 | 0 |
| 6-1-40 | 4,932 | 120 | 0 |
| 7-1-40 | 1,270 | 100 | 0 |
| 8-1-40 | 384 | 60 | 0 |
| 9-1-40 | Dry | 70 | 0 |
| 10-1-40 | Dry | 70 | 0 |
| 11-1-40 | Dry | 80 | 0 |

| | Archuleta Reservoir Cap. 98 | Hunters Lake Res. Cap. 48 | Spruce Lake Res. No. 1 Cap. 88 | Spruce Lake Res. No. 2 Cap. 93 |
|--------|--------------------------------|------------------------------|-----------------------------------|-----------------------------------|
| May 1 | 98 | 8 | 18 | 93 |
| Nov. 1 | 0 | 0 | 0 | 0 |

| | Dude Ranch Reservoir Cap. 125 | Road Canon Reservoir Cap. 2,400 | Poage Reservoir Cap. 260 | Lost Lakes Reservoir Cap. 1,066 |
|--------|----------------------------------|------------------------------------|-----------------------------|------------------------------------|
| May 1 | 78 | 2,000 | 118 | 358 |
| Nov. 1 | 0 | 2,000 | 0 | 0 |

| | Shaw Reservoir Cap. 638 | Bristol Head Res. No. 1 Cap. 153 | Bristol Head Res. No. 2 | Beaver Park Reservoir Cap. 4,434 |
|--------|----------------------------|-------------------------------------|-------------------------|-------------------------------------|
| May 1 | 135 | 0 | 0 | 500 |
| Nov. 1 | 0 | 0 | 0 | 0 |

| | Regan Lake Reservoir Cap. 1,200 | Chenoweth Reservoir Cap. 40 | Eastdale Res. No. 1 Cap. 3,468 | Eastdale Res. No. 2 Cap. 3,047 |
|---------|------------------------------------|--------------------------------|-----------------------------------|-----------------------------------|
| 12-1-39 | | | 508 | 0 |
| 1-1-40 | | | 508 | 0 |
| 2-1-40 | | | 508 | 0 |
| 3-1-40 | | | 298 | 0 |
| 4-1-40 | | | 258 | 0 |
| 5-1-40 | No Report | No Report | 416 | 0 |
| 6-1-40 | | | 558 | 0 |
| 7-1-40 | | | 87 | 0 |
| 8-1-40 | | | 90 | 0 |
| 9-1-40 | | | 38 | 0 |
| 10-1-40 | | | 496 | 0 |
| 11-1-40 | No Report | No Report | 761 | 0 |

| | Goin's Lake Reservoir Cap. 40 | Humphries Reservoir Cap. 842 | Trout Lake Reservoir Cap. 198 | Wright's Lake or Spring Creek Res. Cap. 120 |
|--------|----------------------------------|---------------------------------|----------------------------------|--|
| May 1 | 5 | 842 | 198 | 120 |
| Nov. 1 | 0 | 842 | 0 | 58 |

| | Ruby Lake Reservoir Cap. 120 | Hermit Lake Res. No. 1 Cap. 360 | Hermit Lake Res. No. 2 Cap. 360 | Grace Lake Reservoir Cap. 605 |
|-------------|------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------|
| May | 96 | 423 | 360 | 605 |
| Nov. 1..... | 0 | 423 | 360 | 605 |

| | Sowards Lake Reservoir Cap. 120 | Goose Creek Reservoir Cap. 231 | Wee Ruby Reservoir Cap. 150 | Brown's Lake or Troutvale Res. Cap. 510 |
|-------------|---------------------------------------|--------------------------------------|-----------------------------------|---|
| May 1..... | 200 | 237 | 0 | 510 |
| Nov. 1..... | 160 | 0 | 0 | 460 |

| | Fuchs Reservoir Cap. 200 | Squaw Creek Reservoir Cap. 85 | Bergeys Lake Reservoir Cap. 28 | Metroz Reservoir Cap. 128 |
|-------------|--------------------------------|-------------------------------------|--------------------------------------|---------------------------------|
| May 1..... | 169 | 103 | 28 | 128 |
| Nov. 1..... | 0 | 0 | 28 | 0 |

Potatoes

The potato crop, while short in acreage, and the yield curtailed on account of inroads from Psylid, leaf wilt and shortage of water, has produced a very satisfactory volume. 5890 cars, which includes shipments in November and December, 1939, having been shipped by train and trucks compared with 5,000 cars last year, and it is estimated 4,000 cars are in storage. Some outstanding yields have been reported. Three Growers have made the 600-bushel club. These better yields were the result of pumping and artesian water. Condition of the tubers, however, is not satisfactory, as there were no killing frosts until late in October and as a result, much unripened stock was stored, which will cause a serious loss and those shipped arrived at destination in poor condition, skin broken, and bruised and discolored. They did not compare favorably with stock from other localities. The price of 60 and 65c is very discouraging to the growers and many have stored their stock in hopes of a better price. The Government has purchased 550 cars, paying the local price. This stock will be turned over to the Federal Surplus Marketing Administration.

The Psylid was controlled where spray was used and treatment of seed was some help to leaf wilt.

Mixed Vegetables Shipments

There was 576 cars of mixed vegetables, consisting of carrots, spinach, lettuce, broccoli, garden beets and turnips. These vegetables produce wonderful yields and quality was excellent. They bring good money on the market.

Field Peas

Field peas, a good money crop and a good yield, is popular among the farmers. They are a soil builder. There was 25,049 acres harvested. The crop will be disposed of mostly locally.

Cabbage

The cabbage crop was excellent, acreage normal and yield up to standard. There were no worms or insects to interfere with the quality, and the price received made it a profitable crop. 409 cars were shipped.

Cauliflower

The cauliflower was, as usual, a fine crop. Acreage and yield normal but the price of 35c a crate was very discouraging to the grower. With the cost of production, crating and transportation to shipping point, there was nothing left. 1309 cars were shipped.

Sugar Beets

The sugar beet crop was below the average. 271 cars or 10,300 tons were shipped, as compared with 350 cars last season. There was 2,014 acres harvested. The sugar content was 18%. Some very good yields were made where pumping or artesian water was available. Best yield reported was 17.5 tons per acre.

Market Garden Peas

Market garden peas was the banner crop in this division. 1,178 acres having been harvested. Some very outstanding yields were reported. One grower on 240 acres shipped 35 cars which brought \$35,000. After paying expenses of producing the crop, he had a net of \$25,000. This fine showing was result of an excellent yield and brought 4½ cents per pound on the market.

The average price was \$2.75 per cwt. Only two days during the season was the price below cost of production. The Canning Plant at La Jara had a good campaign, having a large acreage of their own and were able to take the culls from other growers.

Lettuce

The lettuce crop was fair and quality good. Shortage of water at the critical time curtailed the yield.

Price of 50c per crate was not very satisfactory. 272 cars were shipped.

Sweet Clover

Sweet clover is a very important crop as it not only produces a good forage crop, slightly less in food value than alfalfa, but it also is a good fertilizer when plowed under green and followed with potatoes.

There was 46,793 acres in crop this year.

Alfalfa

Alfalfa produced a normal first cutting but owing to shortage of water the second cutting was very light, some fields were not cut but left for pasture.

Wild Hay

Wild hay was a 50% crop owing to water shortage. Both these crops will be consumed locally at a very fair price.

Grain

The grain crop was very short both as to acreage and yield due to poor moisture, soil conditions that did not germinate the seed, and shortage of water at the critical stage later.

The yield is not over 40% of normal and price at harvest time was \$1.00 per cwt.

Live Stock

Live stock shipments out of the division will be heavy. The price of beef cattle make it very attractive for the growers and as there is an apparent shortage of feeds, most of the stockmen are cutting down their herds.

Lambs

Heavy shipment of lambs at a price of \$8.00 per cwt. makes good money for the sheepman. Also the price of 30c per pound for wool, most of which has been consigned, makes this industry a very profitable one.

The division was free from serious hail losses. Only a few scattered storms were reported and they came early and caused little damage.

Vegetable Shipments

Total vegetable shipments out of the valley was 9,837 cars, consisting of the following:

| | |
|-------------------------|-------|
| Potatoes | 5,890 |
| Sugar Beets..... | 271 |
| Market Garden Peas..... | 1,178 |
| Cauliflower | 1,309 |
| Cabbage | 409 |
| Lettuce | 272 |
| Mixed Vegetables..... | 492 |
| Spinach | 16 |

9,837.

Compared with 8,675 in 1939.

Improvements

In District No. 22, The Canon Ditch installed a new headgate and Parshall flume.

New headgates were installed on the Braiden overflow, The San Jose, The Seledonio Valdez and The Taos Valley.

The Manassa No. 3 installed new headgate and a 12-foot Parshall flume.

There were many minor repairs made to headgates, flumes and ditches over this district.

District No. 21 has started work on two cement diversion dams on La Jara creek and one on Alamosa creek, also the construction of a flume to carry Alamosa creek water over the La Jara creek for irrigation of lands on the south side of the creek. Also a new headgate on The Terrace Canal. Work to be done by C. C. C., water users to furnish material and C. C. C. to do the work.

District No. 25 has installed 5 new Parshall 3-foot flumes and 4 new headgates.

The Baca Grant people have constructed and enlarged approximately 100 miles of laterals on the Grant and have installed many headgates where the water is carried from the main source of supply so as to spread it over some new territory that will bring under irrigation several thousand acres of wild hay land and pasture.

District No. 35, The Trinchera Irrigation District, have installed 18 new headgates and Parshall flumes, which completes the installation of headgates and Parshall flumes on all their ditches. They are repairing and repainting 3 miles of metal flume and cleaning and enlarging 3 miles of canals. Total cost \$8,811.65.

The Trinchera Farms Co. have completed the installation of headgates and Parshall flumes on all their ditches. A survey was made to relocate points of diversion on ditches where channel changes in the creeks left the original points of diversion some distance from the stream.

Generally over the division repairs and improvements to headgates, flumes and ditches, show a willingness of water users to cooperate with water officials in the administration of water.

While the season was one of the worst in several years, so far as the water supply was concerned, there was only three arrests and convictions for interference with headgates. Generally there was fine cooperation between the water users and water officials.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 4 FOR THE SEASON OF 1939

Montrose, November 10, 1939.

Mr. M. C. Hinderlider, State Engineer
 State Capitol Building
 Denver, Colorado

Dear Sir:

Herewith I submit my annual report for the season of 1939.

Precipitation during the fall of 1938 was high, resulting in good ground conditions.

The snow depths as shown by weekly snow cover reports were very encouraging in the early part of the winter, but when the surveys of the snow courses were made in March and April it became apparent that there would be a shortage unless late snow-fall in the mountains would give an additional runoff.

After March 1 conditions grew worse instead of better. The following table showing a comparison of the precipitation at Montrose for six months with the 45-year average indicates the conditions for the whole of Division No. 4.

| Month 1939 | Precipitation Inches, 1939 | Average Inches | Variation Inches | Percentage Variation |
|---------------|-------------------------------|-------------------|---------------------|-------------------------|
| March | 0.91 | 0.77 | +0.14 | +15 |
| April | 0.13 | 0.88 | -0.75 | -85 |
| May | 0.19 | 0.95 | -0.76 | -80 |
| June | 0.02 | 0.54 | -0.52 | -96 |
| July | 0.68 | 0.90 | -0.22 | -25 |
| August | 1.07 | 1.37 | -0.30 | -20 |
| Total | 3.00 | 5.41 | -2.41 | -45 |

In addition to extremely dry weather during the first four months of this period unusual dry winds prevailed. It seemed impossible for water users to get the proper amount of moisture in the soil with any amount of irrigation, and the soil dried out with unusual rapidity. On June 18 extremely heavy winds did great damage to forest land all over the division, destroying much valuable timber, and damaging fruit crops in some areas. This was followed by a heavy frost which injured the forage crops on the ranges and destroyed much summer feed for range stock.

All these conditions were responsible for a considerable shortage of many crops, especially hay and grain. The shortage was greater in natural grass crops grown on high altitude lands, and in the potato crop.

It is a very fortunate thing that all local water officials were men of experience and energy. I believe that, and the fact that the water users cooperated with them unselfishly, averted much greater losses that would have occurred if this had not been the case. It is true that there was a considerable carry-over of stored

water, but nevertheless the final amount of storage would have been much less but for the mutual confidence and joint action of water users and local water officials, and to them belongs the credit of meeting a difficult situation successfully.

For the first time the Taylor Park Reservoir was filled to its total capacity of 106,000 acre feet, and the total release during the season, as shown by the statement of Jesse R. Thompson, Superintendent of the Uncompahgre Valley Water Users' Association, was nearly 80,000 acre feet. Since the Uncompahgre River and the Gunnison River were both very low during July, August and September this supply of water saved the Uncompahgre Project from very severe losses.

Following is Mr. Thompson's statement:

“Uncompahgre Project, Colorado. Season 1939.

“Under the terms of the contract between the Bureau of Reclamation and the Uncompahgre Valley Water Users' Association approved August 4, 1931, the operation and maintenance of the project was assumed by the Association on January 1, 1932.

“The project irrigation system includes approximately 600 miles of canals and laterals and requires 1500 second feet of water entering the project during periods of peak demand.

“Due to the light snowfall in the Uncompahgre watershed the peak runoff of the Uncompahgre River for the season was only 932 second feet. This made it necessary to divert water through the Gunnison Tunnel to supplement the flow in the Uncompahgre River from about April 10th to the end of the irrigation season. The flow in the Gunnison Tunnel was increased to 500 second feet on April 18th, and gradually increased to 827 second feet by the end of the month. The flow of the Gunnison Tunnel when full ranged from 935 to 950 second feet depending on the head on the gates at East Portal. The Taylor Park Reservoir was full at the beginning of the irrigation season and contained an abundance of water to meet the demands of the project.

“However, due to the limited capacity of the Gunnison Tunnel it was impossible to divert enough water through the tunnel to meet these demands. The demand for water was considerably above normal due to the dry windy season, there being practically no rainfall in the valley from the time farming started in the spring until July. The supply of water diverted to the project met demands as follows: Up to May 12th deliveries met demands; May 13th to June 20th, 110 per cent; June 21st to June 30th, 100 per cent; July 1st to July 9th, 90 per cent; July 10th to July 12th, 80 per cent; July 13th to July 14th, 75 per cent; July 15th to July 30th, 70 per cent; July 31st, 90 per cent; August 1st to 13th, 100 per cent; August 14th to 17th, 90 per cent; August 18th to September 5th, 75 per cent; September 6th, 100 per cent, with enough to meet demands the balance of the season.

“Water from Taylor Park Reservoir is diverted down Taylor River to the Gunnison River thence to the East Portal of the Gunnison Tunnel and through the tunnel to the Uncompahgre Valley. 78,600 acre feet of water was used out of the Taylor Park Reservoir the past season. Total capacity of the Taylor Park Reservoir is 106,000 acre feet plus bank storage.

“Water was delivered upon demand to the water users on an acre foot basis. The lands generally on the west side of the Uncompahgre River were furnished 5 acre feet of water for a minimum charge of \$1.65 per acre. Lands generally on the east side of the Uncompahgre River, which consist principally of adobe soils were furnished 4 acre feet of water at a minimum of \$1.32 per acre. Excess water was furnished at the rate of 10 cents per acre foot for all water received in excess of 5 acre feet per acre.

“Operating conditions in the project canals and laterals were generally good throughout the irrigation season. Some difficulty was experienced with the upper end of the new canal section where the M&D Canal has been moved back to eliminate the sliding hillside section. This difficulty was overcome by lining and puddling this canal section with earth. No operating troubles were experienced in connection with the Gunnison Tunnel. The water was shut out of the Gunnison Tunnel from June 12th to June 15th, inclusive, to make necessary repairs to the concrete lining on the South Canal and to allow the City of Montrose to make a new concrete intake from the South Canal to the city mains.

“Crops throughout the valley will average about normal with hay, potatoes and grain a little below normal.

“Fall weather has been favorable for crop harvesting.

“Appreciation is expressed to the office of the Division Irrigation Engineer of the State of Colorado for the efficient manner in which the diversion of waters in this section of the Western Slope have been administered.”

Adjudications of water rights in nine water districts have been practically completed. For the first time Water District No. 63, comprising the Dolores River watershed from the mouth of the San Miguel River to the Utah State Line, was put under administration. Since there was no local water commissioner the work was done by this office with the help of local officials of Water Districts Nos. 42 and 61. No trouble was experienced, notwithstanding a serious shortage of water during part of the season.

The investigations of the Bureau of Reclamation for the purpose of determining storage possibilities in Water Districts 40 and 42 are being continued, and should result in some much needed development.

The following is a letter received by me from Mr. C. J. McCash, Area Engineer of the Soil Conservation Service, Grand Junction, Colorado:

“The status of the Water Facilities Program in your division is as follows:

“The Ralph M. Girling project in Delta County, which involves the laying of 5200 feet of 12-inch pipe line for an irrigation supply is under way. The materials are on the ground and the welding of the line will commence by November 10. The direct Federal cost of this job is estimated at approximately \$8,700.00.

“The Cedar Mesa Reservoir Project in Delta County, which involves the rehabilitation and enlargement of an existing reservoir from a capacity of 486 acre feet to approximately 900 acre feet, has been approved subject to several conditions. The conditions will be met without any difficulties and the job can proceed. Construction will commence as soon as the reservoir is emptied next summer. The direct Federal cost of this job is estimated at \$14,000.00.

“This office has completed field work on 12 additional proposed reservoir projects. The field data on these jobs will be worked up this winter and designs and estimates prepared for consideration of the people involved. These proposed projects are located on the Leroux Creek watershed principally.

“This office will keep you advised of our activities and any questions you might have regarding the program will be gladly accepted and answered to the best of our knowledge.

“We wish to take this opportunity to thank you for the assistance and suggestions you have given us.

“Now that winter is starting and putting an end to your field work, I will look forward to further helpful and interesting discussions with you along the water facilities program lines.”

Under your orders of August 23, 1938, minor repairs have been made on many reservoirs in Water Districts 40 and 42. Special attention has been given to requirements necessary to safety and to the securing of accurate capacity tables, gage rods, and measuring devices in order that releases made be accurately determined and the rights of direct flow users protected.

An enlargement of the Onion Valley Reservoir storing water from Crystal Creek watershed in Water District No. 40 was completed this year, and a slight increase in storage was made during the current year. This work was done by contract under the supervision of the State Engineer's Office, and increases the storage capacity of the reservoir from 5280 acre feet to 9000 acre feet. There is under the project 5000 acres of irrigated land of high quality and there was a shortage of water which the enlargement will supply.

A new rating station was established on Surface Creek nine miles above Cedaredge under the cooperation agreement between

your office and the U. S. Geological Survey. Records have been kept and ratings made since June when it was established. This station was much needed for administrative purposes.

This year a sub-office of the Department of Water Resources of the U. S. Geological Survey was established here under Mr. Rolland F. Kaser to better handle the expanding hydrographic work of this area. This arrangement is of great benefit in administration and I wish to express my appreciation for the co-operation given me by Mr. Kaser.

In the fall of 1938, a standard small shelter was installed at a point immediately below the forest service highway bridge on Taylor River about 1000 feet below the outlet of the Taylor Park Reservoir. This year staff gages were installed on Taylor River, Texas Creek and Willow Creek, the three streams discharging into the reservoir, at convenient points above.

In cooperation with the Uncompahgre Valley Water Users' Association, I have rated these streams and secured data for determining the flows into and out of the reservoir. An automatic recorder is installed in the shelter below. This will be in operation only part of the year, as extreme cold causes the still well to freeze solid in winter. However, the caretaker will make careful outside gage readings on this station, also on the inflow gages during open weather. We have found that the most accurate record of inflow in winter is obtained from daily readings of the mercurial gage height recorder of the reservoir.

The Colorado Water Conservation Board has been making some very interesting investigations of consumptive use on the Uncompahgre Valley Project during the past two years, and this data will no doubt be available in due time.

Very truly yours,

FRED S. HOTCHKISS,

Irrigation Division Engineer, Irrigation Division No. 4.

IRRIGATION DIVISION NO. 4

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL
DITCH REPORTS 1939

| Dist. No. | Ditches Reported | No. of Priorities | Amount of Appropriation Cu. Ft. Per Sec. | Capacity of Canals and Ditches Cu. Ft. Per Sec. | Length of Canals or Ditches in Miles | First Day Water Was Used |
|-------------|------------------|-------------------|--|---|--------------------------------------|--------------------------|
| 28..... | 210 | 212 | 617.44 | 1,821 | ..... | Apr. 20 |
| 40..... | 502 | 724 | 3,085.81 | 3,891 | 1,239.7 | Apr. 1 |
| 41..... | 74 | 120 | 1,817.04 | 3,332 | 619.4 | Mar. 1 |
| 42..... | 298 | 332 | 3,710.92 | 3,952 | 975.2 | Mar. 20 |
| 59..... | 99 | 161 | 679.31 | 2,109 | 219.5 | May 1 |
| 60..... | 233 | 230 | 1,157.12 | 1,443 | 553.0 | Apr. 1 |
| 61..... | 14 | 33 | 80.04 | 103 | 43.8 | Apr. 1 |
| 62..... | 75 | 88 | 312.75 | 799 | 171.8 | Apr. 15 |
| 68..... | 139 | 141 | 535.65 | 677 | 218.5 | Apr. 5 |
| Totals..... | 1,644 | 2,041 | 11,996.08 | 18,127 | 4,040.9 | |

| Dist. No. | Last Day Water Was Used | Average No. of Days Water Was Used | Average Daily Amount in Sec. Ft. | No. Acre Ft. Used | No. Acres Can Be Irrigated |
|-------------|-------------------------|------------------------------------|----------------------------------|-------------------|----------------------------|
| 28..... | Sept. 5 | 82 | 572.0 | 94,184 | 29,917 |
| 40..... | Nov. 1 | 128 | 1,400.41 | 359,547 | 237,563 |
| 41..... | Oct. 31 | 131 | 1,184.90 | 519,942 | 105,518 |
| 42..... | Nov. 1 | 181 | 1,777.53 | 645,005 | 173,004 |
| 59..... | Oct. 10 | 83 | 1,538.00 | 255,461 | 24,031 |
| 60..... | Oct. 31 | 122 | 582.65 | 143,088 | 151,010 |
| 61..... | Nov. 15 | 170 | 25.25 | 8,503 | 3,874 |
| 62..... | Nov. 1 | 106 | 514.60 | 108,676 | 18,905 |
| 68..... | Nov. 2 | 113 | 320.47 | 72,344 | 24,675 |
| Totals..... | | 140 | 7,915.81 | 2,206,750 | 768,497 |

Note—Ditches in Water District No. 63 reported with District No. 42.

IRRIGATION DIVISION NO. 4

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL
CROP REPORTS, 1939

| Dist. No. | Alfalfa | Natural Grasses | Cereals | Orchards |
|-------------|---------|-----------------|---------|----------|
| 28..... | 53 | 29,823 | 16 | ..... |
| 40..... | 54,072 | 28,751 | 20,205 | 13,321 |
| 41..... | 21,745 | 10,185 | 24,275 | 772 |
| 42..... | 28,461 | 13,966 | 12,073 | 3,930 |
| 59..... | 119 | 21,058 | 5 | ..... |
| 60..... | 13,142 | 5,323 | 13,138 | 217 |
| 61..... | 1,400 | 3,446 | 1,244 | 60 |
| 62..... | 1,430 | 7,836 | 1,699 | 30 |
| 68..... | 5,418 | 12,361 | 1,549 | 17 |
| Totals..... | 125,840 | 132,749 | 74,204 | 18,347 |

| Dist. No. | Market Gardening | Potatoes | Sugar Beets | Other Crops |
|-----------|------------------|----------|-------------|-------------|
| 28 | 11 | 14 | ..... | ..... |
| 40 | 773 | 2,099 | 4,818 | 29,207 |
| 41 | 830 | 3,148 | 2,439 | 8,471 |
| 42 | 805 | 1,185 | 344 | 50,110 |
| 59 | ..... | 68 | ..... | 118 |
| 60 | 260 | 620 | ..... | 5,925 |
| 61 | 13 | 8 | ..... | 21 |
| 62 | 30 | 1,047 | ..... | 2,557 |
| 68 | 15 | 74 | 109 | 610 |
| Totals | 2,737 | 8,263 | 7,710 | 97,019 |

| Dist. No. | Total Irrigated | Superintendence | Repairs | Improvements |
|-----------|-----------------|-----------------|------------|--------------|
| 28 | 29,917 | \$ ..... | ..... | ..... |
| 40 | 153,246 | 8,025 | 32,643 | 13,820 |
| 41 | 71,865 | 2,460 | 7,080 | 13,497 |
| 42 | 110,874 | 36,512 | 90,680 | 17,364 |
| 59 | 21,368 | 500 | 4,575 | ..... |
| 60 | 38,625 | 8,927 | 20,797 | 2,060 |
| 61 | 6,192 | ..... | ..... | ..... |
| 62 | 14,629 | 1,725 | 4,290 | 100 |
| 68 | 20,153 | 3,850 | 150 | 210 |
| Totals | 466,869 | \$ 61,999 | \$ 160,215 | \$ 47,051 |

IRRIGATION DIVISION NO. 4

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORT, 1939

| Dist. No. | No. in Dist. | Area of High Water Lane, Acres | Capacity in Acre Feet | Quantity of Water in Reservoir May 1 | Quantity of Water in Reservoir Nov. 1 |
|-----------|--------------|--------------------------------|-----------------------|--------------------------------------|---------------------------------------|
| 40 | 158 | 3,284 | 43,935 | 36,049 | 1,822 |
| 42 | 67 | 1,967 | 15,962 | ..... | ..... |
| 59 | 1 | 2,033 | 108,300 | 77,080 | 28,340 |
| 60 | 2 | 392 | 4,784 | 4,585 | 726 |
| Totals | 228 | 7,676 | 172,981 | 117,714 | 30,888 |

| Dist. No. | First Day Water Was Used | Last Day Water Was Used | Average No. Days Water Was Used | Average Daily Amount in Sec. Ft. | No. Acre Ft. Carried |
|-----------|--------------------------|-------------------------|---------------------------------|----------------------------------|----------------------|
| 40 | Apr. 27 | Nov. 4 | 46 | 388.33 | 34,876 |
| 42 | Apr. 14 | Oct. 26 | 50 | 107.70 | 10,770 |
| 59 | July 11 | Oct. 30 | 111 | 454.27 | 100,847 |
| 60 | May 10 | July 23 | 62 | 35.28 | 4,375 |
| Totals | ..... | ..... | 76 | 985.58 | 150,868 |

| Dist. No. | Superintendence | Repairs | Improvements |
|-----------|-----------------|--------------|--------------|
| 40 | \$ 2,742.00 | \$ 5,712.00 | \$ 11,160.00 |
| 42 | ..... | ..... | ..... |
| 59 | 2,000.00 | 5,200.00 | 7,500.00 |
| 60 | ..... | ..... | ..... |
| Totals | \$ 4,742.00 | \$ 10,912.00 | \$ 18,660.00 |

This tabulation does not include reservoirs whose water is used for other purposes than irrigation.

CROP AND MARKETING CONDITIONS

Alfalfa

The acreage of alfalfa has been reduced this year partly on account of the necessity of reseeding, more largely, perhaps, on account of the restriction of grazing on the National Forest ranges and the consequent loss of market by the growers. Prices for hay were low, with the prospect of a large holdover.

Seed Crops

Sweet clover and red clover seed crops have been raised to a considerable amount the past few years with a good profit. This year, however, the demand is poor and conditions not good.

Potatoes

The yield of potatoes this year was low, partly on account of weather conditions. Bacteria wilt also took a heavy toll, and constitutes a serious menace to the industry unless a remedy can be found. Prices, notwithstanding the short crop, were low, ranging from 70c to 85c per hundred weight.

Onions

This crop, which is largely grown in the Uncompahgre and Gunnison Valleys, has at times paid excellent profits. This year, with a large yield, prices are so low that few have been shipped. The price ranges from 45c to 50c per hundred, which is below cost of production.

Cereals

Grain crops show a probable shortage in yield of 25%, but prices, especially for wheat, are very good. Corn growing shows a tendency to increase and is largely used for feeding, either to range stock or for fattening.

Sugar Beets

The beet growing industry shows a tendency to increase in acreage, but conditions of growth were bad this year and the yield below average.

Market Garden Peas

The growing of market garden peas is a new industry, about 300 or 400 acres having been grown this year with good results. It is estimated that 2000 acres will be grown next year, a large part under the Onion Valley Reservoir recently enlarged. These

lands, in the vicinity of Crawford, Colorado, lie at an elevation above 6000 feet, and have proven excellent for this crop. The vines provide excellent hay when cut, or may be plowed under with good fertilizing value.

Fruit Crops

Stone fruits—sweet cherries, peaches, apricots and prunes, did well and brought fair prices, although high winds just before picking damaged the sweet cherries considerably.

Apples did not yield as well as last year, due to the fact that this was an "off year", it being usual for a heavy yield year to be followed by one with a light yield. Prices were low, due to a large general supply and the failure of the European market on account of war.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 4 FOR THE SEASON OF 1940

Montrose, January 15, 1941.

Mr. M. C. Hinderlider, State Engineer
Capitol Building
Denver, Colorado

Dear Sir:

Herewith I submit my annual report for the year 1940.

For the first time in my experience in this division we had two very dry years in succession. The dry season of 1939 resulted in a depletion of ground waters and the withdrawal of most of the reserve of stored water in reservoirs. This was particularly true of the Grand Mesa area in Water Districts 40 and 42, where there was no holdover. However, unusually heavy snows in April helped that territory. For the first time during the five years that snow survey records have been kept, one snow course, that at Alexander Lake, showed a greater water content in the snow on May 1, 1940, than on April 1, and all courses in the area showed a higher water content May 1, 1940, than on May 1, 1939. This condition was of great importance, since after May 1 the warmer weather would cause a more rapid melting of snow and a consequent higher proportion of runoff than if snow of the same water content had melted more slowly; while total storage was not equal to that of 1939, because of lack of holdover, the amount stored in 1940 in Grand Mesa reservoirs was greater than for the preceding year.

Two reservoirs in Water District 40 that had been improved previously were filled to capacity. The Onion Valley Reservoir enlargement, made under supervision of the State Engineer's office, increased its storage from 5300 acre feet to approximately 9200. The reconstructed Fruit Growers' Reservoir, built by the Bureau of Reclamation, was filled to its capacity of 4600 acre feet.

The Taylor Park Reservoir in Taylor Park which supplies supplemental water for the Uncompahgre Valley project began storage about October 15, 1939, with 28,400 acre feet holdover. The maximum amount of water in the reservoir on July 4 was 84,500 acre feet. The releases of stored water amounted to 75,420 acre feet as shown by the annexed statement of Jesse R. Thompson, Project Superintendent. For a time it appeared that the total storage would be drawn, but the necessity of further releases was ended by late September rains. Following is Mr. Thompson's statement:

“Uncompahgre Project, Colorado. Season of 1940.

“Under the terms of the contract between the Bureau of Reclamation and the Uncompahgre Valley Water Users' Association approved August 4, 1931, the Operation and Maintenance of the project was assumed by the Association on January 1, 1932.

“The project irrigation system includes approximately 650 miles of canals and laterals and requires 1500 second feet of water entering the project during periods of peak demand.

“Although the snowfall in the Uncompahgre water shed was above normal the peak runoff was only 1430 second feet at Colona. This occurred on June 2, 1940. On June 5, the water had dropped to 1100 second feet while the maximum up to May 27, was only 1006 second feet. For this reason it was necessary to turn water through the Gunnison Tunnel to supplement the flow in the Uncompahgre River on April 5. From this time on throughout the season water was diverted through the Gunnison Tunnel to supplement the flow of the Uncompahgre River. The flow through the Gunnison Tunnel was increased to 715 second feet on April 11. The flow continued around this amount with the exception of a few days in June when it was lowered to as low as 425 second feet. Soon thereafter it was raised again, reaching a peak of 998 second feet on July 28, 1940. The Taylor Park Reservoir contained 85,400 acre feet at the beginning of the irrigation season and was lowered to 9980 acre feet on September 22. At this time rains throughout the valley and surrounding area were sufficient to raise all streams and meet demands. Water was turned out of Taylor Park Reservoir to supplement the flow of the Gunnison River on July 4, 1940. By July 10 there was 650 second feet being diverted from the reservoir.

“Due to the limited capacity of the Gunnison Tunnel it was not possible to divert enough to meet project demands. There was no restrictions on the delivery of water up to June 17. On June 18 it was necessary to cut the delivery to a percentage basis. Deliveries on this basis ranged from 125% on June 18 to as low as 70% on August 16 to 19 and again on September 12 to 14, inclusive. Soon thereafter we were able to deliver water on a 100% basis and continued to do so until September 22 at which time general rains made it possible to meet all demands.

“Water from Taylor Park Reservoir is diverted down Taylor River to the Gunnison River thence to the East Portal of the Gunnison Tunnel and thence through the tunnel to the Uncompahgre Valley. Not including inflow to the reservoir 75,420 acre feet of water was used out of the reservoir the past season. The total capacity of the Taylor reservoir is 106,000 acre feet plus bank storage.

“Water was delivered on demand to the water users on an acre foot basis. The lands generally on the west side of the Uncompahgre River were furnished 5 acre feet of water for a mini-

imum charge of \$1.65 per acre. Lands generally on the east side of the Uncompahgre River, which consists mostly of adobe soils, were furnished 4 acre feet of water at a minimum of \$1.32 per acre. Excess water was furnished at the rate of 10c per acre foot for all water received in excess of 5 acre feet per acre.

“Operating conditions of the project canals and laterals were good throughout the irrigation season there being no interruption of flow in major canals due to sliding banks, floods, etc. No operating troubles were experienced in connection with the Gunnison Tunnel. The water was out of the tunnel on June 13 to make an inspection prior to the usual heavy run of water. At this time miscellaneous minor repairs were made to the concrete lining and the automatic gages in the tunnel were cleaned preparatory to the usual reading to determine flow conditions in the tunnel. On June 15 the water was again turned out of the tunnel and a reading taken of the tunnel gages. On August 20 the water was again turned out of the tunnel to allow local officials together with Bureau Engineers to inspect the tunnel preparatory to planning work for the coming winter in connection with the rehabilitation or tunnel betterment program.

“Crops throughout the valley were a little below normal.

“Fall weather was unfavorable to crop harvesting there being quite a loss of hay and beans due to extended rainy weather.

“We again express our appreciation for the cooperation and efficient manner in which Mr. Fred Hotchkiss, Division Irrigation Engineer of the State of Colorado, has administered the diversion of water in this section of the Western Slope.”

Notwithstanding the increase of flow of the Gunnison River due to the release of Taylor Park Reservoir water during the low water season, there was a shortage of water to supply the Redlands Power Canal near the mouth of the river. The Redlands project is designed to use 600 second feet to furnish power for lifting 70 second feet to supply irrigation water. The project also produces electric current to supply a portion of the demand of the City of Grand Junction. The rating station on the Gunnison River near Grand Junction located one-half mile below the Redlands diversion is so arranged as to record the combined flow of the stream and the canal. The shortage of water began July 2 this year. On July 4 the turbine was running below speed; July 7 rotation of water became necessary, and from July 12 to about September 1 the available supply was below 400 second feet. For two months from July 13, it was necessary to buy power for pumping. This power cost \$2,025.00 in 1940. In 1939 power purchases ran slightly over \$3,300.00.

The Grand Valley Reclamation Project which draws its supply of water from the Colorado River above Palisade also experienced considerable shortage, notwithstanding the fact that water from compensatory storage was used to supply an amount equivalent to the transmountain diversion. Some trouble was caused

also by the practice of the Public Service Company of storing the flow of the Colorado River during a part of each day at the Shoshone Plant above Glenwood Springs, and then to release it during the period of peak load on its lines. This fluctuation has failed to "smooth out" in the 60 to 75 miles to the point of diversion of the Project canal and other large canals in the lower valley, making it very difficult to maintain a steady flow and not leaving a sufficient head at times to fill the priorities.

Snow Surveys

The snow surveys conducted by the Soil Conservation Service in cooperation with State and Federal Agencies issue monthly reports during winter and spring months. There are 15 courses on watersheds of this division, or on closely adjacent drainage. They have been of great value in determining the probable runoff of the watersheds on which they are located.

Repairs and New Projects

Numerous small storage projects in Water Districts 40 and 42 were built many years ago by users whose means were very limited. Part of this construction, notably outlet conduits and control valves, were of a very flimsy and temporary nature, and it has been a difficult problem to secure such repair and improvement as would safeguard the public and at the same time come within the owners' ability to pay. This year repairs have been made on a number of reservoirs, consisting principally of increasing the thickness of the earth fill on Anderson No. 1 and Bull Creek Nos. 4 and 5 and the installation of a new conduit and control on the Sunset reservoir, all in Water District No. 40.

Within the past year nearly all the reservoirs whose administration is in charge of this department have installed gage rods and furnished capacity tables in conformity with orders from your office.

The Hallenbeck Reservoir, located on the Kannah Creek watershed, with a capacity when completed of 800 acre feet, was partly constructed and filled to approximately 400 acre feet. The work was done by the owner with his own equipment and no cost data has been given.

The Juniata Reservoir, located in the same area, was repaired under orders from the State Engineer. This reservoir was in bad condition in 1939 due to overfilling, seepage under the lower toe of the dam, and erosion of the lower toe on account of the conduit not extending to a sufficient distance below the lower toe. All these defects were corrected by widening and deepening the spillway, installing drains under the lower toe, and extending the conduit. The reservoir was filled to the allowed capacity and the dam seemed to be in excellent condition throughout the season.

Proposed new work for which plans have been prepared are the installation of a new conduit and enlargement of the Park

Reservoir in District 40 at an estimated cost of \$15,000.00, and the rehabilitation and enlargement of the Cedar Mesa Reservoir in the same district. The Park Reservoir work is to be financed by a loan from the Wichita Bank for Co-operatives. The dam is to be raised to a height of 46 feet with a storage capacity of about 3,300 acre feet. The Cedar Mesa project, estimated to cost \$14,000.00, is to be constructed by the Soil Conservation Service under the Water Facilities Act.

The Spring Creek Reservoir on East Muddy Creek, a preliminary survey of which was made under direction of the State Engineer in 1934, is under consideration for construction as a Bureau of Reclamation Project. The plans call for the enlargement and extension of the Fire Mountain Canal to cover about 2,500 acres of additional land, the canal to have a carrying capacity of 140 second feet and the reservoir a capacity of 10,000 acre feet.

Crop Yields and Prices

Crop yields in this division were about normal.

Prices on stone fruits, including sweet cherries, apricots and peaches, were fairly satisfactory. Large quantities were sold directly to truckers to be hauled to the prairie states. It seems that this method of bulk handling is more profitable to the growers than sorting, packing and shipping in car lots through commission firms.

The apple crop, while large and of good quality, is moving very slowly at low prices, probably due to a failure to reach the European market which formerly took a large part of the apple crop. Average prices of orchard run apples is about \$20.00 per ton.

Grain yields were good, but prices low. There seems to be a continuing trend toward replacing small grain crops with plantings of corn. Alfalfa crops were normal with present prices of \$6.00 to \$7.00 per ton. The pinto bean acreage has been increasing steadily for several years and has proven profitable, but prices this year were only \$2.00 per hundredweight. Fall storms caused some losses on this crop.

Potato yields were only fair and prices low. Present prices are about 65 cents per cwt. in car lots.

Prices for cattle and sheep were good, but the price of hogs was low.

The installation of new measuring devices has improved administration. Numerous small Parshall flumes and one large size 12 foot Parshall with a capacity of 350 second feet were put in under supervision of this office and more have been ordered.

There are several streams on which there is considerable reservoir storage where rating stations with automatic recorders

are greatly needed. This is especially true on some streams where large numbers of beaver have built dams that interfere with the normal stream flow, especially during dry years.

Notwithstanding acute water shortage, water users showed a general disposition to cooperate with the water officials. No prosecution for interference with administration was necessary.

I enclose a tabulation of Water Commissioners' Annual Reports.

Very truly yours,

FRED S. HOTCHKISS,

Irrigation Division Engineer, Irrigation Division No. 4.

IRRIGATION DIVISION NO. 4

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL
DITCH REPORTS, 1940

| Dist. No. | Ditches Reported | No. of Priorities | Amount of Appropriation Cu. Ft. Per Sec. | Capacity of Canals and Ditches Cu. Ft. Per Sec. | Length of Canals or Ditches in Miles | First Day Water Was Used |
|-----------|------------------|-------------------|--|---|--------------------------------------|--------------------------|
| 28 | 57 | 294 | 583.32 | 1,805 | 173 | Apr. 15 |
| 40 | 463 | 690 | 3,085.77 | 4,001 | 1,194 | Mar. 1 |
| 41 | 76 | 138 | 1,870.46 | 3,345 | 595 | Mar. 1 |
| 42 | 298 | 320 | 3,792.40 | 4,096 | 1,317 | Mar. 1 |
| 59 | 99 | 161 | 679.31 | 2,109 | 220 | May 1 |
| 60 | 265 | 352 | 1,900.38 | 1,597 | 637 | Mar. 1 |
| 61 | 14 | 33 | 84.50 | 131 | 51 | Apr. 1 |
| 62 | 75 | 88 | 312.75 | 799 | 172 | Apr. 15 |
| 68 | 138 | 180 | 649.63 | 737 | 205 | Apr. 16 |
| Totals | 1,485 | 2,256 | 12,958.52 | 18,620 | 4,564 | |

| Dist. No. | Last Day Water Was Used | Average No. of Days Water Was Used | Average Daily Amount in Sec. Ft. | No. Acre Ft. Used | No. Acres Can Be Irrigated |
|-----------|-------------------------|------------------------------------|----------------------------------|-------------------|----------------------------|
| 28 | July | 25 | 95 | 408.50 | 28,305 |
| 40 | Nov. | 1 | 121 | 1,509.00 | 229,798 |
| 41 | Oct. | 31 | 198 | 1,384.87 | 122,905 |
| 42 | Nov. | 1 | 146 | 1,653.35 | 176,926 |
| 59 | Oct. | 10 | 83 | 1,538.00 | 24,031 |
| 60 | Nov. | 1 | 145 | 438.04 | 153,870 |
| 61 | Nov. | 1 | 171 | 29.60 | 9,333 |
| 62 | Nov. | 1 | 106 | 514.60 | 18,905 |
| 68 | Oct. | 8 | 104 | 387.03 | 25,648 |
| Totals | | | 7,862.99 | 2,053,307 | 789,721 |

Ditches under administration in Water District No. 63 reported with Water District No. 42.

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL
CROP REPORTS, 1940

| Dist. No. | Alfalfa | Natural Grasses | Cereals | Orchards |
|-----------|---------|-----------------|---------|----------|
| 28 | 78 | 28,132 | 81 | ..... |
| 40 | 52,459 | 27,816 | 19,846 | 13,117 |
| 41 | 21,308 | 4,151 | 31,851 | 1,071 |
| 42 | 26,387 | 13,949 | 11,351 | 6,689 |
| 59 | 119 | 21,058 | 5 | ..... |
| 60 | 13,612 | 6,415 | 12,858 | 224 |
| 61 | 1,305 | 3,742 | 1,124 | 54 |
| 62 | 1,430 | 7,836 | 1,699 | 30 |
| 68 | 5,096 | 13,870 | 1,816 | 23 |
| Totals | 121,794 | 126,969 | 80,631 | 21,208 |

IRRIGATION DIVISION NO. 4—Continued

| Dist. No. | Market Gardening | Potatoes | Sugar Beets | Other Crops |
|-----------|------------------|----------|-------------|-------------|
| 28 | | 14 | | |
| 40 | 834 | 1,990 | 4,231 | 29,029 |
| 41 | 812 | 3,140 | 2,443 | 7,533 |
| 42 | 2,153 | 769 | 654 | 53,548 |
| 59 | | 68 | | 118 |
| 60 | 355 | 651 | 40 | 7,231 |
| 61 | 11 | 8 | | 47 |
| 62 | 30 | 1,047 | | 2,557 |
| 68 | 21 | 57 | 99 | 206 |
| Totals | 4,216 | 7,744 | 7,467 | 100,269 |

| Dist. No. | Total Irrigated | Super-intendence | Repairs | Improvements |
|-----------|-----------------|------------------|-----------|--------------|
| 28 | 28,305 | | | |
| 40 | 149,322 | \$ 7,850 | \$ 29,101 | \$ 4,169 |
| 41 | 72,309 | 14,507 | 94,158 | 8,143 |
| 42 | 115,500 | 78,645 | 70,913 | 58,652 |
| 59 | 21,368 | 500 | 4,575 | |
| 60 | 41,386 | 8,780 | 22,203 | 5,120 |
| 61 | 6,291 | | | |
| 62 | 14,629 | 1,725 | 4,290 | 100 |
| 68 | 21,188 | 4,993 | 625 | |
| Totals | 470,298 | \$117,000 | \$225,865 | \$ 76,184 |

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORT, 1940

| Dist. No. | No. in Dist. | Area of High Water Line, Acres | Capacity in Acre Feet | Quantity of Water in Reservoir May 1 | Quantity of Water in Reservoir Nov. 1 |
|-----------|--------------|--------------------------------|-----------------------|--------------------------------------|---------------------------------------|
| 40 | 157 | 3,358 | 46,809 | 30,975 | 3,244 |
| 42 | 67 | 1,150 | 18,862 | | |
| 59 | 1 | 2,033 | 106,200 | 45,060 | 14,510 |
| 60 | 2 | 392 | 5,034 | 1,842 | 1,908 |
| Totals | 227 | 6,933 | 176,905 | 77,877 | 19,662 |

| Dist. No. | First Day Water Was Used | Last Day Water Was Used | Average No. Days Water Was Used | Average Daily Amount in Sec. Ft. | No. Acre Feet Carried |
|-----------|--------------------------|-------------------------|---------------------------------|----------------------------------|-----------------------|
| 40 | 4-11 | 10- 6 | 45 | 395.82 | 35,539 |
| 42 | 5-14 | 10-15 | 54 | 110.45 | 11,863 |
| 59 | 7- 4 | 9-20 | 79 | 477.34 | 75,420 |
| 60 | | | 60 | 36.46 | 4,375 |
| Totals | | | | 1,020.07 | 127,197 |

| Dist. No. | Super-intendence | Repairs | Improvements |
|-----------|------------------|-------------|--------------|
| 40 | \$ 2,847.00 | \$ 3,645.00 | \$ 4,480.00 |
| 42 | | | |
| 59 | | | |
| 60 | | | |
| Totals | \$ 2,847.00 | \$ 3,645.00 | \$ 4,480.00 |

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 5 FOR THE SEASON OF 1939

Glenwood Springs, Colorado, November 30, 1939.

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir:

In compliance with the provisions of the law, I transmit herewith my annual report as Division Irrigation Engineer for Irrigation Division No. 5 for the year ending November 30, 1939.

Administration

The Irrigation season just completed was undoubtedly one of the driest this Division has ever experienced. The precipitation and the run off of streams was below normal. This year ditches on some streams were shut off for the first time in history.

The Division Engineer has been kept very busy this season; it has been necessary to do a great deal more traveling than in previous years. This year a total of 6,401 miles has been traveled, an average of 533 miles per month; also about 160 miles by horse back.

The Administration of water rights in the Division has been improved this season by the installation of many new headgates and Parshall Flumes. Most of this improvement has been in Water District Nos. 70 and 38.

Preparations are under way for a general adjudication to be held for District No. 52 this winter, all the field work has been completed. An adjudication was held this summer for the Divide Creek, Section of Water District No. 45. This adjudication covered flood or high water rights and included a re-survey of acreages.

Administration Costs

Cost of Administration of Division No. 5 for the year of 1939 was \$7,409.02. This includes salaries of all commissioners and their deputies. 137,793 acres were irrigated at a cost of .053 cents per acre for services of water commissioners and their deputies.

| Dist. No. | Acres Irrigated | Commissioners' Fees | Deputies' Fees |
|-----------|-----------------|---------------------|----------------|
| 37 | 26,422 | \$ 834.00 | ..... |
| 38 | 36,220 | 858.00 | \$ 424.95 |
| 39 | 20,554 | 1,248.00 | 100.00 |
| 45 | 30,640 | 984.00 | 1,145.00 |
| 52 | 3,983 | 324.00 | ..... |
| 53 | 11,985 | 396.00 | 104.97 |
| 70 | 7,989 | 990.00 | ..... |
| Totals | 137,793 | \$5,634.00 | \$1,775.02 |

Climatological Data

Following is the temperatures and precipitation as recorded at Rifle: Elevation 5,355, and at Glenwood Springs: Elevation 5,823.

| | | RIFLE | | | | | |
|---------------|-----------|-------|------|------|------|-------|-------|
| | | May | June | July | Aug. | Sept. | |
| Maximum | Temp..... | 87 | 93 | 100 | 99 | 90 | |
| Minimum | Temp..... | 30 | 35 | 42 | 40 | 34 | |
| Precipitation | | | | | | | Total |
| 1939 | ..... | .15 | .40 | .51 | .22 | 2.02 | 3.30 |
| 1938 | ..... | 1.10 | .77 | .31 | .45 | 1.71 | 4.34 |
| 1937 | ..... | .25 | .33 | 2.17 | .54 | .71 | 4.00 |
| 1936 | ..... | .00 | .05 | 1.54 | 1.50 | .45 | 3.54 |
| 1935 | ..... | 1.95 | .00 | .90 | .32 | 1.01 | 4.18 |

| | | GLENWOOD SPRINGS, COLORADO | | | | | |
|---------------|-----------|----------------------------|------|------|------|-------|-------|
| | | May | June | July | Aug. | Sept. | |
| Maximum | Temp..... | 88 | 92 | 100 | 95 | 89 | |
| Minimum | Temp..... | 32 | 32 | 45 | 43 | 35 | |
| Precipitation | | | | | | | Total |
| 1939 | ..... | .95 | 1.50 | 1.84 | .63 | 2.43 | 7.35 |
| 1938 | ..... | 2.53 | 3.45 | 0.45 | 1.44 | 2.14 | 10.01 |
| 1937 | ..... | 1.15 | 0.92 | 4.51 | 2.31 | .96 | 9.85 |
| 1936 | ..... | 0.49 | 0.63 | 2.06 | 1.65 | 1.09 | 5.92 |
| 1935 | ..... | 2.54 | 0.50 | 0.88 | 1.46 | 2.89 | 8.27 |

This has been one of the driest years as far as rainfall is concerned that this division has ever experienced; from May 1st to June 1st, .55 of an inch of rain fell in the Rifle District, and from June 1st to July 30th, a period of 59 days, only .10 of an inch of rain fell in the same district; in the Glenwood vicinity between June 1st and July 30th, 1.07 of an inch of rain fell.

It will be seen in the above table that from May 1st to Sept. 30th inclusive at Glenwood Springs in 1938 a total of 10.01 inches of rain fell as against 7.35 inches in the same period in 1939, a decrease of 2.66 inches. At Rifle in the same period, 4.34 inches in 1938 and 3.30 inches of rain fall in 1939, a decrease of 1.04 inches.

Temperatures during the past season have been above normal, at some points reaching the highest of record.

On the 15th of June, winds of very high velocity were general throughout the division. Considerable damage resulted to trees in the national forests; telephone and telegraph lines were blown down; many fruit trees were damaged, and many small buildings on farms were destroyed.

On the 19th of June a killing frost covered almost the entire division; in some districts freezing potatoes as much as two inches into the ground, killing beans, stunting the first cutting of alfalfa and damaging fruit.

Snow Report

Following is the average snow depth and water content of 19 snow courses on the Colorado River drainage above Grand Junction for the years 1938 and 1939 for the first of February, March, April and May, also the averages for the past four years.

| | Average Snow Depth | | | Average Water Content | | |
|-----------|----------------------|------|------|-----------------------|------|------|
| | Four Year Avg. | 1938 | 1939 | Four Year Avg. | 1938 | 1939 |
| Feb. | 35.6 | 37.9 | 40.9 | 8.5 | 9.4 | 9.9 |
| Mar. | 44.7 | 40.4 | 48.1 | 11.9 | 11.3 | 12.8 |
| Apr. | 48.2 | 52.1 | 45.8 | 14.4 | 15.5 | 14.0 |
| May | 29.0 | 38.3 | 25.9 | 11.2 | 14.8 | 10.2 |

The above shows that on May 1, 1939, on the Colorado River drainage above Grand Junction, the water content of snow as indicated by the 19 snow courses was 10.2 inches, which is nine percent less than the average was for the past four years and 31 percent less than it was in 1938. This shows that the prospects for irrigation water were definitely poorer than they had been during the past four years; however, it was almost impossible to convince the farmers that this was true. Most farmers believed that we were going to have a good runoff, basing their belief on the fact that there was much snow in the hills. They did not take into consideration that although there was considerable snow in the mountains, it did not have the water content of previous years; consequently, many farmers put in crops that they otherwise would not have planted and due to the lack of water many of these crops were complete failures.

From April to September inclusive, the runoff of the Colorado River of Glenwood Springs bears out the predictions of the snow survey. The following shows the runoff for the years of 1934, 1937, 1938 and 1939.

RUN-OFF OF COLORADO RIVER, ACRE-FEET

| | 1934 | 1937 | 1938 | 1939 |
|-----------------|----------------|------------------|------------------|------------------|
| April | 103,000 | 97,430 | 168,000 | 146,800 |
| May | 344,500 | 429,300 | 538,800 | 583,200 |
| June | 164,000 | 342,700 | 895,300 | 420,800 |
| July | 57,190 | 173,900 | 296,700 | 124,900 |
| August | 56,660 | 75,920 | 106,000 | 66,610 |
| September | 42,460 | 65,480 | 113,100 | 51,520 |
| | <u>767,810</u> | <u>1,184,730</u> | <u>2,117,900</u> | <u>1,393,830</u> |

The runoff in acre-feet in 1939 in the above mentioned months was 34 percent less than in 1938 checking out very closely with the statement in the snow report that on May 1, 1939, there was 31 percent less water content in the snow than there was on May 1, 1938. A comparison of the runoff in 1939 to that of 1934, which year has the least runoff of any on record, shows that in 1939 there was 45 percent more runoff over the same period than there was in 1934.

Reservoir Storage

Reservoir storage this year was about normal; on May 15th, there was 11,560 acre-feet in storage in 19 reservoirs in this division; besides this amount there were a few very small reservoirs filled on which there is no record. By November 1st, all of the 19 reservoirs were dry, but usually there will be a carry over until the next year of about 1,000 to 1,500 acre-feet.

In order to conserve water one of the largest reservoir companies (The Grass Valley Reservoir Company, storage 3,900 acre-feet) ran their reservoir water only every other week. In the latter part of the season they also restricted the use of the water to sugar beets and potatoes, letting their other crops dry up such as alfalfa, fruits, corn and small grains.

Range Conditions

During the early spring and up to about June 15th, the live-stock ranges were in good condition; but during the long dry spell of June and July the ranges were burned brown by the sun. Cattle and sheep were moved to the high mountain ranges weeks earlier than in previous years; conditions on the high ranges were not much better than on the lower ranges. Many sheep were shipped to market earlier this year because of lack of feed on the ranges. Cattle have been able to withstand the unfavorable conditions fairly well and cattle coming off the ranges this fall look well-filled-out with good solid flesh perhaps due to the hard dry feed they had been on all summer. Sheep prices have been fair and cattle prices good this fall.

Due to the dry conditions many forest fires were reported and hundreds of acres of valuable timber and grazing lands were destroyed before the fires were brought under control.

Potatoes

Potato yield this year is about 50 percent of normal mostly due to the frost in June and to some extent by shortage of water for irrigation. Prices have been somewhat better than last year.

Sugar Beets

Sugar beet acreage this year is somewhat less than in 1938. The yield averaged about 15 tons per acre.

Alfalfa

Alfalfa acreage is about normal but the yield is only about 50 percent of normal. The frost in June stunted the first cutting. The second cutting was very poor due to shortage of rain fall and of water for irrigation. At one time early this fall in the Rifle Section, cattlemen were bidding \$12.00 per ton for alfalfa. September rains helped pastures, and closer shipping by stockmen have now brought the price down to from \$8.00 to \$10.00 per ton.

New Construction and Investigations, Bureau of Reclamation Construction

Construction on the Colorado-Big Thompson project is so far limited to the Green Mountain Dam, which is located on the Blue River about 16 miles southeast of Kremmling, Colorado. This reservoir is to be used to replace water diverted to the eastern slope that would be required by prior rights along the Colorado River. The Dam will be an earth filled dam, 270 feet high when completed. The spill-way will have a capacity of 25,000 cubic feet per second. A hydro-electric plant will be constructed below the dam to utilize the flow of the Blue River and water stored in the reservoir for the generation of electrical energy. When completed the reservoir will have a capacity of 152,000 acre-feet of water; 52,000 acre-feet will be available as replacement in Western Colorado, 100,000 acre-feet will be used for power purposes.

Bids were recently opened on the Continental Divide Tunnel which were considerably higher than the estimates. The contract has not been let at this writing.

Investigation

The Bureau of Reclamation continues its investigation of the following projects in Irrigation Division No. 5.

| | |
|-----------------------------------|--------------|
| Rifle or Hunter Mesa Project..... | 18,000 Acres |
| Silt Project | 7,700 Acres |
| Troublesome Project | 10,000 Acres |

Water Facilities Program

The principal need of Irrigation Division No. 5 is a number of small reservoirs on small streams. It was hoped that the Water Facilities Program would be able to build a number of these reservoirs but there are so many obstacles in the matter of eligibility of the applicant, that at present no reservoirs have been approved in this division. However, two irrigation supply ditch projects were approved. The direct federal cost of these projects is estimated at \$7,620.00. Construction is about 80 percent complete on one of the projects which involves the laying of approximately 1,400 feet of 18-inch pipe. Bids have been awarded for the materials and supplies for the other project, construction of which will start about November 15th. This project also involves the laying of a supply pipe line.

At present the Water Facilities have a party in the field in Eagle County, performing a survey of another irrigation supply ditch.

Municipal Water Supply Improvements

The City of Rifle have under construction a filtration plant and auxiliary pumping plant from the Colorado River. The city has a direct flow right from Beaver Creek for 1.0 cubic foot per

second but the city has out-grown this amount and it has become necessary to get a supplemental supply of which the Colorado River was the only source. Both the Colorado River and Beaver Creek water will be run through the filtration plant thence into the storage reservoir. The project consists of a 600,000 gallon concrete storage reservoir where the filtered water will be stored before turning into the city mains. The filtration plant has a capacity of 1,600,000 gallons in 24 hours. The pumping plant from the Colorado River will be electrical and will deliver 450 gallons per minute of water through a 4,700 foot steel pipe line of 8-inch diameter. The total cost of the project will be \$32,600. This is a much needed improvement and will greatly improve the quality of the city water.

Trans-Mountain Diversion

Following is a report of the Trans-Mountain Diversions from Division No. 5 to Divisions Nos. 1 and 2:

Division No. 1

| | |
|---------------------|-------------------------|
| Grand River | 18,561 Acre-feet |
| Berthoud | 883 Acre-feet |
| Moffat Tunnel | 31,134 Acre-feet |
| East Hoosier | 320 Acre-feet |
| West Hoosier | 158 Acre-feet |
| Boreas Pass | Acre-feet |
| Total | 51,056 Acre-feet |

Division No. 2

| | |
|---------------------------|-------------------------|
| Twin Lakes Tunnel..... | 35,353 Acre-feet |
| Busk-Ivanhoe Tunnel | 5,353 Acre-feet |
| Ewing Ditch | 929 Acre-feet |
| Wurtz Ditch | 1,483 Acre-feet |
| Columbine Ditch | 1,239 Acre-feet |
| Fremont Pass Ditch..... | 1,097 Acre-feet |
| Total | 45,454 Acre-feet |
| Grand Total | 96,510 Acre-feet |

Yours very truly,

L. C. FINLEY, Division Engineer.

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL
DITCH REPORT FOR THE IRRIGATION SEASON OF 1939
IRRIGATION DIVISION NO. 5

| District No. | No. of Ditches Reported | Amount of Appropriation Cu. Ft. Per Sec. | Capacity of Canal | Length of Main Ditch in Miles | First Day Water Was Used | Last Day Water Was Used |
|--------------|-------------------------|--|-------------------|-------------------------------|--------------------------|-------------------------|
| 36 | | | | | | |
| 37 | 215 | 1,712.13 | 1,765.59 | 342.00 | May 15 | Nov. 1 |
| 38 | 128 | 993.27 | 1,440.00 | 268.35 | May 1 | Oct. 15 |
| 39 | 129 | 593.09 | 769.3 | 223.75 | Mar. 28 | Oct. 31 |
| 45 | 53 | 667.92 | 886.10 | 223.0 | Apr. 10 | Oct. 1 |
| 50 | | | | | | |
| 51 | | | | | | |
| 52 | 92 | 119.92 | 395.00 | 44.17 | Apr. 15 | Oct. 10 |
| 53 | 60 | 262.45 | | 63.3 | Apr. 20 | Oct. 20 |
| 70 | 60 | 162.95 | 313.00 | 87.75 | Apr. 1 | Oct. 29 |
| Totals | 737 | 4,511.73 | 5,568.99 | 1,252.32 | | |

| District No. | Average No. of Days Water Was Carried | Average Daily Amt. Diverted in Sec. Ft. | No. Acre-Ft. Used from Stream | No. of Acres That Can Be Irrigated | Alfalfa | Natural Grasses |
|--------------|---------------------------------------|---|-------------------------------|------------------------------------|---------|-----------------|
| 36 | | | | 11,500* | | |
| 37 | 138 | 893.00 | 277,420 | 29,485 | 11,910 | 9,431 |
| 38 | 111 | 878.70 | 225,398 | 36,220 | 22,395 | 5,031 |
| 39 | 122 | 341.2 | 100,078 | 25,612 | 10,445 | 3,096 |
| 45 | 65 | 260.06 | 28,338 | 38,718* | | |
| 50 | | | | 21,400* | | |
| 51 | | | | 41,100* | | |
| 52 | 43 | 161.74 | 15,433 | 7,217 | 1,275 | 2,367 |
| 53 | 157 | 178.50 | 53,305.2 | 15,945 | 3,360 | 7,525 |
| 70 | 80 | 125.80 | 27,626.9 | 17,560 | 5,557 | 533 |
| Totals | 102 | 2,839.0 | 677,599 | 244,757 | 54,942 | 27,983 |

| District No. | Cereals | Orchards | Market Gardens | Potatoes | Sugar Beets | Beans | Peas |
|--------------|---------|----------|----------------|----------|-------------|-------|-------|
| 36 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 37 | 3,820 | ..... | 303 | 1,575 | ..... | ..... | 258 |
| 38 | 5,500 | ..... | ..... | 3,294 | ..... | ..... | ..... |
| 39 | 3,733 | 500 | 309 | 1,261 | 1,661 | 73 | ..... |
| 45 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 50 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 51 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 52 | 306 | ..... | ..... | 35 | ..... | ..... | ..... |
| 53 | 375 | ..... | 15 | 170 | ..... | 30 | 150 |
| 70 | 1,353 | 4 | 17 | 60.5 | 11 | 447 | ... |
| Totals | 15,087 | 504 | 644 | 6,395 | 1,672 | 550 | 408 |

| District No. | Cabbage | Other Crops | Total Irrigated | Superintendence | Repairs | Improvements |
|--------------|---------|-------------|-----------------|-----------------|----------|--------------|
| 36 | | | 8,400* | ..... | ..... | ..... |
| 37 | | 24 | 26,422 | ..... | \$19,937 | ..... |
| 38 | | | 36,220 | ..... | ..... | ..... |
| 39 | | 5 | 20,554 | \$ 4,510 | 15,910 | \$ 4,020 |
| 45 | | | 30,640* | ..... | ..... | ..... |
| 50 | | | 9,100* | ..... | ..... | ..... |
| 51 | | | 22,180 | ..... | ..... | ..... |
| 52 | | | 3,983 | ..... | 1,516 | ..... |
| 53 | | 360 | 11,985 | ..... | 2,425 | ..... |
| 70 | | 6 | 7,989 | ..... | 2,115 | 400 |
| Totals | | 395 | 177,473 | \$ 4,510 | \$41,903 | \$ 4,420 |

*Estimated by Division Engineer.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 5 FOR THE SEASON OF 1940

Glenwood Springs, Colorado, November 30, 1940.

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir:

In compliance with the provisions of the law, I transmit herewith my annual report as Division Irrigation Engineer for Irrigation Division No. 5 for the year ending November 30, 1940.

Administration

In my report a year ago, I stated that 1939 undoubtedly was the driest season this Division had ever experienced, now I must start off by saying that 1940 was even drier than the previous year.

The administration of water rights in the Division has further been improved this season by the installation of 21 new Parshall Flumes and 28 new Steel Headgates. Most of this improvement has been in Water Districts Nos. 38 and 45.

Preparations are under way for an adjudication this winter for the Garfield Creek Section of Water District No. 45 and the Elk Creek Section of Water District No. 39. These adjudications are to cover flood or high water rights and include a re-survey of acreages.

Two new Water Commissioners were appointed this year: Mr. Lester Coulter was appointed Commissioner of Water District No. 45 to succeed Mr. Frank Taughenbaugh, who resigned early this spring; Mr. Ralph Kelker of Kremmling was appointed Commissioner of District No. 50.

Due to the construction of two new reservoirs in District No. 50, and the consequential complications in the delivery of water because of reservoir storage and releases it was found necessary that a Water Commissioner be appointed. He, however, was appointed so late in the year that I did not require him to make an annual report.

On July 28th, the Colorado Public Service Company's Shoshone Plant notified me that the flow in the Colorado River had fallen below their adjudicated amount and requested me to shut off the junior rights above their plant. Junior rights which included transmountain diversions were closed on July 29th with exceptions of water being diverted by the City of Denver through the Moffat Tunnel and Jones Pass, which were compensated by the release of water from the Williams Fork Reservoir. On August 2nd, Mr. M. C. Hinderlider advised me that the Govern-

ment Highline Canal at Grand Junction was short 165 second feet, therefore, the Twin Lakes Diversion was shut off. But with all Junior rights shut off, the Colorado River was still below the necessary amount to fill the Highline Canal adjudication.

On August 16th, a meeting was held in Hot Sulphur Springs for the purpose of coming to some understanding as to how the releases of water should be made from the Williams Fork Reservoir. Mr. Potts, who represented the City of Denver, suggested that instead of releasing the same amount at the reservoir that was being diverted through the Moffat and Jones Pass Tunnels from day to day, he would be in favor of turning out 100 second feet from the reservoir to run until the amount then in storage was exhausted, we to give the City of Denver credit for the amount then in storage, the City to continue their diversions until they had diverted that amount. It was agreed by all present that this would be the best way, as it would give a larger flow in the Colorado River at a time when it was badly needed; also it would eliminate the constant changing of the amount being released from the reservoir. Those attending the meeting were:

M. C. Hinderlider, State Engineer; H. L. Potts, Water Rights Engineer, City of Denver; F. C. Merriell, Colorado River Conservation District; W. J. Chiesman, Superintendent, Government Highline Canal; C. E. Jansen, Hydraulic Engineer, Colorado Public Service Co.; L. C. Finley, Division Irrigation Engineer.

Administration Costs

Cost of Administration of Division No. 5 for the year of 1940 was \$6,977.00. This includes salaries of all commissioners and their deputies. 142,978 acres were irrigated at a cost of .049 cents per acre for services of Water Commissioners and their deputies.

| Dist. No. | Acres Irrigated | Commissioners' Fees | Deputies' Fees | Total |
|-----------|-----------------|---------------------|----------------|------------|
| 37 | 26,831 | \$ 708.00 | ..... | \$ 708.00 |
| 38 | 37,175 | 1,026.00 | \$ 350.00 | 1,376.00 |
| 39 | 20,121 | 1,284.00 | ..... | 1,284.00 |
| 45 | 25,749 | 540.00 | 1,125.00 | 1,665.00 |
| 50 | 9,100 | 264.00 | ..... | 264.00 |
| 52 | 4,160 | 216.00 | ..... | 216.00 |
| 53 | 11,765 | 456.00 | ..... | 456.00 |
| 70 | 8,077 | 1,008.00 | ..... | 1,008.00 |
| Totals | 142,978 | \$5,502.00 | \$1,475.00 | \$6,977.00 |

Climatological Data

Following is the temperatures and precipitation as recorded at Rifle: Elevation 5,355; and at Glenwood Springs: Elevation 5,823.

| | | RIFLE | | | | | |
|---------------|-------|-------|------|------|------|-------|-------|
| | | May | June | July | Aug. | Sept. | |
| Maximum Temp. | ..... | 89 | 98 | 102 | 101 | 94 | |
| Minimum Temp. | ..... | 33 | 32 | 46 | 44 | 38 | |
| Precipitation | | | | | | | Total |
| 1940 | ..... | .40 | .23 | .86 | 1.69 | 2.06 | 5.24 |
| 1939 | ..... | .15 | .40 | .51 | .22 | 2.02 | 3.30 |
| 1938 | ..... | 1.10 | .77 | .31 | .45 | 1.71 | 4.34 |
| 1937 | ..... | .25 | .33 | 2.17 | .54 | .71 | 4.00 |
| 1936 | ..... | .00 | .05 | 1.54 | 1.50 | .45 | 3.54 |

GLENWOOD SPRINGS, COLORADO

| | May | June | July | Aug. | Sept. | Total |
|-------------------|------|------|------|------|-------|-------|
| Maximum Temp..... | 86 | 93 | 99 | 99 | 92 | |
| Minimum Temp..... | 30 | 32 | 48 | 45 | 40 | |
| Precipitation | | | | | | |
| 1940 | .62 | .45 | 1.21 | 1.49 | 2.50 | 6.27 |
| 1939 | .95 | 1.50 | 1.84 | .63 | 2.43 | 7.35 |
| 1938 | 2.53 | 3.45 | 0.45 | 1.44 | 2.14 | 10.01 |
| 1937 | 1.15 | 0.92 | 4.51 | 2.31 | .96 | 9.85 |
| 1936 | 0.49 | 0.63 | 2.06 | 1.65 | 1.09 | 5.92 |

It will be seen by the above table that from May 1st to September 30th inclusive, at Glenwood Springs in 1939, a total of 7.35 inches of rain fell as compared to 6.27 inches in the same period of 1940, a decrease of 1.08 inches. At Rifle in the same period, 3.30 inches fell in 1939 and 5.24 inches in 1940, an increase of 1.94 inches, although this shows an increase at Rifle over last year, the rain fall was still considerably below normal.

Temperatures during the past season have been above normal, at Rifle reaching the highest on record, 102 degrees on the 23rd day of July.

Snow Report

Following is the average snow depth and water content of 19 snow courses on the Colorado River drainage above Grand Junction for the years 1938, 1939 and 1940 for the first of February, March, April and May, also the averages for the past five years:

AVERAGE SNOW DEPTH

| | Five-Year | | | |
|-----------|-----------|------|------|------|
| | Avg. | 1938 | 1939 | 1940 |
| Feb. | 33.5 | 37.9 | 41.5 | 25.6 |
| Mar. | 41.8 | 40.4 | 48.1 | 32.2 |
| Apr. | 44.4 | 52.1 | 45.8 | 32.8 |
| May | 28.5 | 38.3 | 25.9 | 24.1 |

AVERAGE WATER CONTENT

| | Five-Year | | | |
|-----------|-----------|------|------|------|
| | Avg. | 1938 | 1939 | 1940 |
| Feb. | 7.8 | 9.4 | 10.1 | 5.5 |
| Mar. | 11.3 | 11.3 | 12.8 | 9.1 |
| Apr. | 13.6 | 15.5 | 14.0 | 10.9 |
| May | 10.7 | 14.8 | 10.3 | 7.8 |

The above shows that on May 1, 1940, on the Colorado River drainage above Grand Junction, the water content of snow as indicated by the 19 snow courses was 7.8 inches, which was 25 percent less than it was in 1939 and 27 percent less than the five year average. This shows that the prospects for irrigation water were definitely poorer than they had been in 1939.

The following shows the runoff of the Colorado River at Glenwood Springs from April to September inclusive for the years of 1934, 1937, 1938, 1939 and 1940.

RUN-OFF OF COLORADO RIVER, ACRE-FEET

| | 1934 | 1937 | 1938 | 1939 | 1940 |
|-----------------|---------|-----------|-----------|-----------|---------|
| April | 103,000 | 97,430 | 168,000 | 146,800 | 45,598 |
| May | 344,500 | 429,300 | 538,000 | 583,200 | 179,130 |
| June | 164,000 | 342,700 | 895,300 | 420,800 | 182,740 |
| July | 57,190 | 173,900 | 296,700 | 124,900 | 63,403 |
| August | 56,660 | 75,920 | 106,000 | 66,610 | 29,265 |
| September | 42,460 | 65,480 | 113,100 | 51,520 | 30,748 |
| Total | 767,810 | 1,184,730 | 2,117,900 | 1,393,830 | 530,884 |

The 1939 snow record showed that the water content was 31 percent less on the 1st of May than it was on the 1st of May in 1938. The Colorado River runoff in 1939 for the months of April, May, June, July, August and September was 1,393,830 acre feet as against 2,117,900 acre feet for the same months in 1938 which shows 34 percent less runoff in 1939 than in 1938. This checks very close to the snow survey prediction that there was 31 percent less water content than in 1938. The snow record in 1940 showed that there was 25 percent less water content in the snow on the first of May than there was on the first of May in 1939. From the past years record it seemed reasonable to suppose that the runoff of the Colorado River at Glenwood Springs would be some where near 25 percent less than it was in 1939 especially so since the rain fall and the use and diversion of water in the upper Colorado River basin was approximately the same as in 1939. However the runoff of the Colorado River at Glenwood Springs in 1940 was 530,884 acre-feet and in 1939, 1,393,830 acre-feet, a difference of 61 percent. This great difference from what the snow survey showed, leads one to believe the snow survey will have to be continued for some time longer. With the records of a longer period of years to work with it may be possible to predict fairly close what the runoff in any one year will be.

Reservoir Storage

Reservoir storage this year was about normal; on May 15th there was 16,983 acre-feet in storage in 19 reservoirs in this division; besides this amount there were a few very small reservoirs filled on which there is no record. By November 1st, all of the stored water had been used.

Range Conditions

Range conditions this year were about the same as last, being in good condition in the spring and up to about June 15th, then they became very dry and feed was extremely short. Cattle prices have been very good this fall and cattlemen have made some money. Sheep prices average the same as last year. Due to the dry conditions a number of forest fires were reported this year, most of them were brought under control quickly and not very much damage resulted.

Potatoes

The potato yield this year has been about normal whereas in 1939 it was only 50 percent of normal. This big change over last year was due to the frost in June of 1939. Prices are about the same as last year, 60 to 70 cents per hundred.

Sugar Beets

The sugar beet yield this year has been about normal, due to the fact that most sugar beets were raised on farms having water rights that are not affected by water shortage.

Alfalfa

Alfalfa yield is again way below normal this year, due to shortage of rain fall and water for irrigation.

Construction

During the past year in District No. 50, two new reservoirs have been completed and put in use for the first time this season. A third reservoir is now being built.

The City of Glenwood Springs have increased their storage capacity for city purposes this year by the installation of two 500,000 gallon steel tanks.

The Town of Minturn has added a 400,000 gallon steel storage tank to their city water system.

Investigations

The Bureau of Reclamation investigations and report for the Rifle Creek Project in Water District No. 39 are about complete and will be released after the first of the year. This project consists of an earth-filled dam about 120 feet high, which will impound approximately 6,000 acre-feet of supplemental water storage.

Trans-Mountain Diversion

Following is a report of the Trans-Mountain Diversions from Division No. 5 to Divisions Nos. 1 and 2:

Division No. 1

| | |
|---------------------|------------------|
| Eureka | 35 Acre-feet |
| Grand River | 17,196 Acre-feet |
| Berthoud | 566 Acre-feet |
| Jones Pass | 9,555 Acre-feet |
| Moffat Tunnel | 28,813 Acre-feet |
| East Hoosier | 101 Acre-feet |
| West Hoosier | Acre-feet |
| Boreas Pass | 166 Acre-feet |

Total56,432 Acre-feet

Division No. 2

| | |
|---------------------------|------------------|
| Twin Lakes Tunnel | 27,768 Acre-feet |
| Busk-Ivanhoe Tunnel | 4,266 Acre-feet |
| Ewing Ditch | 173 Acre feet |
| Wurtz Ditch | 1,002 Acre-feet |
| Columbine Ditch | 1,717 Acre-feet |
| Fremont Pass Ditch | 639 Acre-feet |

Total35,565 Acre-feet

Grand Total91,997 Acre-feet

Yours very truly,

L. C. FINLEY, Division Engineer.

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL
DITCH REPORT FOR IRRIGATION SEASON OF 1940,
IRRIGATION DIVISION NO. 5

| District No. | No. of Ditches Reported | Amount of Appropriation Cu. Ft. Per Sec. | Capacity of Canal | Length of Main Ditch in Miles | First Day Water Was Used | Last Day Water Was Used |
|--------------|-------------------------|--|-------------------|-------------------------------|--------------------------|-------------------------|
| 36..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 37..... | 217 | 1,811.35 | 1,691.49 | 330.00 | May 15 | Nov. 1 |
| 38..... | 112 | 1,405.52 | 1,440.00 | 268.35 | Apr. 1 | Oct. 15 |
| 39..... | 129 | 593.09 | 769.00 | 223.70 | Mar. 10 | Nov. 31 |
| 45..... | 103 | 578.46 | 792.94 | 143.80 | Apr. 1 | Nov. 1 |
| 50..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 51..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 52..... | 92 | 130.98 | 382.50 | 51.37 | Apr. 15 | Oct. 15 |
| 53..... | 60 | 227.35 | ..... | 87.30 | Apr. 10 | Oct. 20 |
| 70..... | 65 | 264.07 | 340.00 | 98.25 | Mar. 8 | Oct. 28 |
| Totals..... | 778 | 5,010.82 | 3,975.93 | 925.42 | | |

| District No. | Average No. of Days Water Was Carried | Average Daily Amt. Diverted in Sec. Ft. | No. of Acre-Ft. Used from Stream | No. of Acres That Can Be Irrigated | Alfalfa | Natural Grasses |
|--------------|---------------------------------------|---|----------------------------------|------------------------------------|---------|-----------------|
| 36..... | ..... | ..... | ..... | 11,500 | ..... | ..... |
| 37..... | 115 | 858.00 | 267,813 | 28,521 | 11,722 | 1,238 |
| 38..... | 114 | 865.38 | 207,122 | 37,175 | 21,570 | 6,380 |
| 39..... | 116 | 373.00 | 102,083 | 25,832 | 10,283 | 3,082 |
| 45..... | 58 | 317.97 | 48,317 | 38,718 | 15,281 | 4,391 |
| 50..... | ..... | ..... | ..... | 21,400 | ..... | ..... |
| 51..... | ..... | ..... | ..... | 41,100 | ..... | ..... |
| 52..... | 42 | 115.43 | 10,957 | 8,217 | 1,400 | 2,415 |
| 53..... | 140 | 161.70 | 48,966 | 15,755 | 3,395 | 7,440 |
| 70..... | 82 | 137.42 | 31,948 | 18,305 | 5,357 | 455 |
| Totals..... | 95 | 2,828.90 | 717,206 | 246,523 | 69,008 | 25,401 |

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL
DITCH REPORT FOR IRRIGATION SEASON OF 1940,
IRRIGATION DIVISION NO. 5—Continued

| District No. | Cereals | Orchards | Market Gardens | Potatoes | Sugar Beets | Beans | Peas |
|--------------|---------|----------|-------------------|----------|-------------|-------|-------|
| 36 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 37 | 3,715 | ..... | 328 | 1,482 | ..... | ..... | 149 |
| 38 | 6,045 | ..... | ..... | 3,180 | ..... | ..... | ..... |
| 39 | 3,843 | 451 | 247 | 611 | 1,539 | 60 | ..... |
| 45 | 4,580 | 818 | 38 | 89 | 26 | 40 | ..... |
| 50 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 51 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 52 | 305 | ..... | ..... | 40 | ..... | ..... | ..... |
| 53 | 350 | ..... | ..... | 180 | ..... | ..... | ..... |
| 70 | 1,610 | 5 | ..... | 45 | ..... | 281 | ..... |
| Totals | 20,449 | 1,274 | 613 | 5,627 | 1,565 | 381 | 149 |

| District No. | Cabbage | Other Crops | Total Irrigated | Superin- tendence | Repairs | Improvements |
|--------------|---------|-------------|--------------------|----------------------|-------------|--------------|
| 36 | | | 8,400 | ..... | ..... | ..... |
| 37 | | | 26,831 | ..... | \$19,481.00 | ..... |
| 38 | | | 37,175 | ..... | ..... | ..... |
| 39 | | 2 | 20,121 | \$ 3,200.00 | 12,048.52 | \$ 2,110.00 |
| 45 | | 87 | 25,749 | ..... | 1,982.00 | 858.00 |
| 50 | | | 9,100 | ..... | ..... | ..... |
| 51 | | | 22,180 | ..... | ..... | ..... |
| 52 | | | 4,160 | ..... | 1,198.00 | ..... |
| 53 | | 400 | 11,765 | ..... | 2,210.00 | ..... |
| 70 | | 324 | 8,077 | ..... | 3,750.00 | 1,075.00 |
| Totals | | 813 | 173,558 | \$ 3,200.00 | \$40,669.52 | \$ 4,043.00 |

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 6 FOR THE SEASON OF 1939

Steamboat Springs, Colorado, November 30, 1939.

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir:

I herewith transmit my annual report for Irrigation Division No. 6 for the year ending November 30, 1939, which includes a tabulation of the Water Commissioners' annual ditch and reservoir reports, and reports on water supply, rainfall and temperature conditions in relation to crop production for 1939.

While the past season was one of the lowest in water supply, adverse temperatures and lack of precipitation during the growing season, which increased the subnormal conditions with respect to crop production and range conditions, the increase in prices of farm products and livestock has tended to offset to a great extent the unfavorable climatic conditions.

The irrigation season just completed was no doubt the most trying on the irrigators and the administration officials that this Division has had in a number of years. Due to the adverse weather conditions, drought and water shortages, many trifling complaints were made and were adjusted without resorting to drastic measures and no disputes of a serious nature developed.

The mileage traveled by the Division Engineer from April 1st to November 1st totals 7,250 miles, of which 3,317 miles were for administrative purposes and 3,933 for Hydrographic work and discharge measurements. Fifty-two river discharge measurements were made and twenty-two ditch ratings. About seventy-five other ditches were visited for the purpose of inspecting measuring devices and head gates and in response to complaints. Ten reservoirs were visited and inspected and orders sent to owners for necessary repairs. Five new reservoir sites were inspected and preliminary reports made.

Travel and Expense of Division Engineer—Starting April 1st

| Month | Total Miles | Adminis- trative | Hydro- graphic |
|------------------------|----------------|---------------------|-------------------|
| April | 964 | 422 | 542 |
| May | 1,155 | 475 | 680 |
| June | 981 | 332 | 649 |
| July | 1,084 | 636 | 448 |
| August | 1,006 | 558 | 448 |
| September | 942 | 420 | 522 |
| October | 1,118 | 474 | 644 |
| | 7,250 | 3,317 | 3,933 |
| Month Average..... | 1,036 | 474 | 562 |
| Cost total..... | \$362.50 | \$165.85 | \$196.65 |
| Average per Month..... | \$ 51.79 | \$ 23.70 | \$ 28.09 |

A change of Water Commissioner and Deputy was made in District No. 43. Thomas Kilduff was succeeded by Thomas Watson and Henry Peterson replaced L. S. Peavey as deputy. A deputy water commissioner was added in District No. 44. Other districts functioned as usual.

The following tabulation shows the cost of administration by Water Commissioners and Deputies the past season.

1939 Water Commissioners

| | | | Total Time | Amount | |
|----------------|--------------------|-------|-----------------|---------------|--------------|
| District 43 | Water Commissioner | ..... | 121 days | \$ 726.00 | |
| | Deputy | ..... | 90 days | 450.00 | \$1,176.00 |
| District 44 | Water Commissioner | ..... | 187 days | 1,122.00 | |
| | Deputy | ..... | 22 days | 110.00 | 1,232.00 |
| District 54 | Water Commissioner | ..... | 69 days | | 414.00 |
| District 57 | Water Commissioner | ..... | 197 days | | 1,182.00 |
| District 58 | Water Commissioner | ..... | 196 days | | 1,176.00 |
| | | | 882 days | | \$5,180.00 |
| Administration | | | Land Irrigation | Cost per Acre | |
| No. of Ditches | Reservoirs | | | | |
| 637 | 45 | | 103,766 acres | | \$0.05 cents |

Snowfall—Yampa and White River Basin

On the Yampa River drainage the water content of the snow on April 1st, as indicated by five snow courses, was 17.6 inches and on May 1st was 13.9 inches, which is about 8 percent less than the average for the past four years and about 8 percent less than last year. The May 1st readings show about 8 percent less than the April 1st readings.

On the White River drainage, the average water content of snow for two courses on the water shed, May 1st, was 9.9 inches, 8 percent less than the four year average and 21 percent less than last year.

TABULATION OF SNOW COURSE READINGS ON THE WHITE AND YAMPA RIVER WATERSHEDS FOR APRIL AND MAY

| Main Drainage and Snow Course | April 1st, 1939, Snow Course Measurements | | | | | |
|-------------------------------|---|----------|----------|-------------------|----------|----------|
| | Av. Snow Depth | | | Av. Water Content | | |
| | Avg. In. | 1938 In. | 1939 In. | Avg. In. | 1938 In. | 1939 In. |
| YAMPA RIVER | | | | | | |
| Dry Lake..... | 61.8 | 56.6 | 50.8 | 22.3 | 20.0 | 20.2 |
| Elk River..... | 55.5 | 58.1 | 40.9 | 18.4 | 16.9 | 14.9 |
| Rambler R. S..... | 70.5 | 67.7 | 53.7 | 25.3 | 24.4 | 22.1 |
| Lynx Pass..... | 46.4 | 50.9 | 40.9 | 13.7 | 17.1 | 14.4 |
| Columbine Lodge..... | 69.4 | 69.0 | 60.7 | 24.0 | 23.1 | 22.2 |
| | 60.7 | 60.5 | 49.4 | 20.9 | 20.3 | 18.8 |
| WHITE RIVER | | | | | | |
| Burro Mountain..... | 59.3 | 66.1 | 47.7 | 20.4 | 23.4 | 19.3 |
| Rio Blanco..... | 50.0 | 52.6 | 45.5 | 16.7 | 18.2 | 16.0 |
| | 54.6 | 59.3 | 46.6 | 18.5 | 20.8 | 17.6 |
| | May 1st, 1939, Snow Course Readings | | | | | |
| YAMPA RIVER | | | | | | |
| Dry Lake..... | 33.0 | 26.7 | 31.1 | 16.6 | 14.6 | 13.5 |
| Elk River..... | 32.1 | 34.9 | 16.9 | 12.4 | 14.4 | 7.1 |
| Rambler R. S..... | 49.7 | 45.4 | 39.8 | 24.0 | 22.2 | 19.9 |
| Lynx Pass..... | 21.0 | 23.9 | 19.1 | 8.8 | 10.4 | 8.5 |
| Columbine Lodge..... | 44.6 | 43.9 | 44.2 | 20.5 | 20.4 | 20.7 |
| | 36.1 | 35.0 | 30.2 | 16.5 | 16.4 | 13.9 |
| WHITE RIVER | | | | | | |
| Burro Mountain..... | 30.4 | 35.3 | 24.0 | 13.1 | 15.2 | 10.7 |
| Rio Blanco..... | 19.5 | 24.8 | 16.0 | 8.5 | 9.8 | 9.0 |
| | 25.0 | 30.0 | 20.0 | 10.8 | 12.5 | 9.9 |

Heavy runoff started early in May and continued to first week in June.

General Weather Conditions as Shown by Temperature Records

January—Considerably warmer than normal, excess in precipitation.

February—Considerably colder than normal, excess in precipitation with more than the normal amount of wind.

March—After March 7th the average temperature for the month was above normal and slightly above in precipitation.

April—Unusually dry and warm weather prevailed during the month, precipitation was decidedly deficient, winds were frequent.

May—Temperature averaged considerably above normal, while precipitation was deficient about 37 percent. Winds of high velocity were frequent and severe enough to cause considerable damage to crops. During twenty-one days of the month, the temperature was freezing or below, yet the departure from normal is shown as a +1.8.

June—Frost or freezing temperature fifteen days in June. Temperature averaged colder than normal with a slight increase over the normal precipitation. Early part of month destructive winds caused considerable damage to crops and property.

July—Unusually warm and exceptionally dry weather continued, and hot and dry winds, very destructive to vegetation, occurred throughout the month.

August—Temperature averaged above normal, while precipitation was only 20 percent of normal.

September—Unusually warm weather, the average being almost 4 degrees above normal, while the precipitation more than doubled the normal amount.

While temperatures, on the average, were higher than normal throughout the season, the continual cold nights and dry, windy, hot days were considered more damaging to crops than the drought.

Temperature and Precipitation Tabulation

Tabulations taken from the records at Steamboat Springs. It is a fair average of conditions relative to temperature and precipitation with respect to crops throughout the Division.

TEMPERATURE

| Month | Min. | Max. | Mean | Dept. | Mean Min. | Mean Max. | High- est Range | No. of Days Freez- ing |
|-----------------|------|------|------|-------|--------------|--------------|-----------------------|---------------------------------|
| May | 22 | 83 | 49.8 | +1.8 | 29.7 | 70.0 | 58 | 21 |
| June | 20 | 87 | 53.5 | -1.17 | 32.1 | 74.9 | 54 | 15 |
| July | 28 | 95 | 61.8 | +1.2 | 37.3 | 86.3 | 59 | 5 |
| August | 27 | 89 | 59.8 | +1.4 | 37 | 82.7 | 59 | 10 |
| September | 24 | 85 | 55.6 | +3.8 | 38 | 73 | 53 | 9 |

PRECIPITATION

| Month | 1939 In. | Avg. | Dept. from Normal | Per Cent |
|-----------------|-------------|------|----------------------|----------|
| May | 1.3 | 2.04 | — .74 | 63% |
| June | 1.09 | 1.06 | + .03 | 103% |
| July | .76 | 1.53 | — .77 | 50% |
| August | .31 | 1.62 | —1.31 | 20% |
| September | 2.96 | 1.46 | +1.50 | 202% |

CROPS

Potatoes

Acreage and production both under normal, the production per acre runs about 80 percent of normal. Quality is good but potatoes are smaller size. The crop for market this season will not exceed 50 cars.

Hay, Timothy and Clover

This crop, where irrigation water was plentiful, will average about 75 percent of the normal production. Where irrigation water was short, the production will not average over 50 percent.

Some meadows were not cut but used for pasture.

Alfalfa and other hay crop in District 43, average 75 percent of normal.

Grain

The grain crop is the poorest in many years, damage caused primarily by drought and not frost.

Spring wheat averaged 20 bushels per acre or 75 percent of normal.

Winter wheat almost complete failure.

Oats about $\frac{2}{3}$ crop.

Other small grains average about $\frac{1}{2}$ crop.

There was a slight increase in acreage planted over normal.

Lettuce and Vegetables

The total number of cars of lettuce, spinach, and mixed vegetables are as follows: 96 Lettuce, 7 Spinach, 24 Mixed vegetables. (Lettuce and Spinach in same car.)

Small total this year on account of heavy frosts during the month of June which ruined several fields.

Market fairly good. Growers received about \$1.00 per crate for Lettuce and one to two cents per pound for Spinach.

The Lettuce and Spinach acreage for 1940 should be as large or larger than 1939.

About potatoes, none have yet been shipped. We have about 12 car loads to move, now stored in our Potato cellar, which will probably be moved in February. The 12 cars will be about all that will be shipped from this district.

Farmers of the Yampa Valley were encouraged by the announcement that an additional \$100,000.00 would be provided to meet increase in costs of constructing the Yampa Reservoir Dam.

Work in the project seventeen miles south of Yampa has been halted by the discovery of faulty foundation conditions which forced a relocation of the dam and the expenditure of from \$80,000.00 to \$100,000.00 more money.

The dam was designed to impound 6,000 acre-feet of water of the Yampa River, to provide supplemental irrigation. But for the unsatisfactory foundation conditions, the project would have been nearly completed this season.

Attached hereto are tabulated statements of Water Commissioners' ditch and reservoir reports.

Yours very truly,

B. T. CHASE,
Irrigation Division Engineer, Division No. 6.

TABULATION WATER COMMISSIONERS' ANNUAL DITCH REPORT 1939

| District No. | No. of Ditches Reported | No. of Priorities | Amt. of Appropriation, Cu. Ft. Per Sec. | Capacity of Canal | Length of Main Ditch, Miles |
|--------------|-------------------------|-------------------|---|-------------------|-----------------------------|
| 43 | 112 | 122 | 550.03 | 500.00* | 203.89 |
| 44 | 143 | 103 | 434.36 | 757.00 | 209.75 |
| 54 | 49 | 34 | 88.33 | 215.00 | 40.00 |
| 57 | 59 | 80 | 392.69 | 423.00 | 158.05 |
| 58 | 274 | 337 | 1,139.71 | 1,366.00 | 251.00 |
| Totals | 637 | 676 | 2,605.12 | 3,361.00 | 862.69 |

| District No. | Length of Laterals, Miles | First Day Water Used from Natural Stream | Last Day Water Used from Natural Stream | Average No. of Days Water Carried from Natural Stream | Average Daily Amt. of Water during Season (Cu. Ft. Per Sec.) |
|--------------|---------------------------|--|---|---|--|
| 43 | | 4-1 | 11-15 | 55 | 42.18 |
| 44 | 383.50 | 4-1 | 10-10 | 55 | 407.67 |
| 54 | | 4-1 | 9-10 | 55 | 114.34 |
| 57 | | 4-5 | 10-24 | 55 | 226.89 |
| 58 | 8.50 | 4-1 | 10-30 | 74 | 660.53 |
| Totals | 391.00 | | | 73 | 1,901.61 |

| District No. | No. of Acres Feet Used by Canal | Total No. of Acres That Can be Irrigated | Alfalfa | Natural Grasses | Cereals |
|--------------|---------------------------------|--|---------|-----------------|---------|
| 43 | 138,244.60 | 224,566 | 8,685 | 8,644 | 2,249 |
| 44 | 46,731.92 | 27,760 | 11,782 | 7,591 | 3,570 |
| 54 | 13,999.00 | 2,225 | 1,209 | 3,995 | 329 |
| 57 | 51,388.58 | 16,371 | 685 | 11,637 | 39 |
| 58 | 118,436.00 | 48,843* | 511 | 35,565 | 2,190 |
| Totals | 269,500.10 | 126,165 | 22,872 | 67,432 | 8,377 |

| District No. | Orchards | Market Gardens | Potatoes | Pasture | Lettuce | Spinach |
|--------------|----------|----------------|----------|---------|---------|---------|
| 43 | | | 45 | | | |
| 44 | | | 25 | | | |
| 54 | 1 | | 50 | | | |
| 58 | | 34 | 139 | 2,378 | 258 | 273 |
| Totals | 1 | 34 | 259 | 2,378 | 258 | 273 |

| District No. | Cabbage | Other Crops | Total Irrigated | Superintendence | Repairs | Improvements |
|--------------|---------|-------------|-----------------|-----------------|--------------|--------------|
| 43 | | | 19,623 | \$ 1,174.00 | \$ 4,527.10 | \$ 1,056.50 |
| 44 | | 40 | 23,008 | | 5,040.00 | 810.00 |
| 54 | | | 5,584 | | 2,250.00 | |
| 57 | | | 12,361 | | 2,975.00 | |
| 58 | | 64 | 41,412 | | 2,005.00 | 1,787.00 |
| Totals | | 104 | 101,988 | \$ 1,174.00 | \$ 17,797.10 | \$ 3,653.50 |

*Estimated.
 REMARKS
 Average number of days water carried reduced by insufficient supply.

TABULATION WATER COMMISSIONERS' ANNUAL RESERVOIR REPORTS, 1939

| District No. | No. in District Reported | Area of High Water Line, Acres | Capacity in Cubic Feet | Quantity of Water in Reservoir May 1st, Cu. Ft. |
|--------------|--------------------------|--------------------------------|------------------------|---|
| 43 | 1 | ... | 1,694,994 | 719,032 |
| 44 | 1 | ... | 22,682,214 | 20,272,060 |
| 54 | 2 | 32 | 18,791,232 | 9,635,016 |
| 7 | 20 | 354 | 165,431,449 | 117,179,646 |
| 8 | 20 | 480 | 216,255,991 | 123,019,107 |
| Totals | 45 | 866 | 424,855,880 | 270,824,861 |

| District No. | Quantity of Water in Reservoir Nov. 1st, Cu. Ft. | First Day Water Used | Last Day Water Used | Average No. Days Water Carried | Average Daily Amount of Water Carried in Cu. Ft. |
|--------------|--|----------------------|---------------------|--------------------------------|--|
| 43 | 908,452 | ... | ... | ... | ... |
| 44 | 519,000 | ... | ... | ... | ... |
| 54 | 330,666 | ... | ... | ... | ... |
| 7 | 19,843,622 | 57,731 | 87,241 | 23 | 2,654 |
| 8 | 142,000 | 17,496 | 21,29 | 18 | 5,534 |
| Totals | 25,243,140 | | | 24 | 73.07 |

| District No. | No. Acre Feet of Water Carried | Alfalfa | Natural Grasses | Cereals | Orchards |
|--------------|--------------------------------|---------|-----------------|---------|----------|
| 43 | ... | 200 | 30 | ... | ... |
| 44 | 466.00 | ... | ... | ... | ... |
| 54 | 312.34 | 290 | 200 | ... | ... |
| 7 | 669.92 | 53 | 260 | 115 | 290 |
| 8 | 2,754.22 | | | | |
| Totals | 4,202.98 | 543 | 790 | 115 | 290 |

| District No. | Potatoes | Total Irrigated | Repairs | Improvements |
|--------------|----------|-----------------|-----------|--------------|
| 43 | ... | 530 | \$ 100.00 | \$ 50.00 |
| 44 | ... | 490 | 30.00 | ... |
| 54 | ... | ... | ... | ... |
| 7 | 40 | 758 | ... | ... |
| 8 | ... | ... | ... | ... |
| Totals | 40 | 1,778 | \$ 130.00 | \$ 50.00 |

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 6 FOR THE SEASON OF 1940

Steamboat Springs, Colorado, November 28, 1940.

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir:

I herewith transmit my annual report for Irrigation Division No. 6 for the year ending November 30th, 1940, which includes a tabulation of the Water Commissioners' annual ditch and reservoir reports.

The subnormal condition of water supply during the past season and its adverse effect upon crop and range conditions were more or less general throughout the area. This condition was most general with the ranges and majority of the dry farming and about one-third of the irrigated area where water supply was dependent upon tributaries with their water supply from snow deposits of lower altitudes, springs, and small storage reservoirs located thereon.

Diversions from the main streams of the Yampa, Elk, White, and Little Snake Rivers in Water District 58, West of Yampa, Districts 43, 44, 54, and 57 were very nearly normal and sufficient for all demands. This situation is attributed to nearly normal snow deposits in the higher altitudes combined with return flow from irrigation along the streams.

Water supply conditions as of May 1st based upon snow readings appeared favorable. In the area North and East of Steamboat Springs, water supplies were estimated 101% of the five year average and 121% of those in 1939. Such readings indicated that the Elk River and other tributaries in the vicinity should have an adequate water supply.

On the Yampa River, above Steamboat Springs, it was estimated that water supply would be slightly less than the five-year average but should equal or exceed that of 1939.

Relative gain in water content of the snow in the White River area, increased materially during the month of April and, on May 1st, was 95% of the five year average and 104% of that in 1939. Most of this supply, however, appeared to be at the head of lower tributaries on the south side of the river and it was doubtful if the main stream from Trapper's Lake down would have as great a runoff as it had in 1939.

SNOW READINGS MAY 1ST, 1940

| Yampa River Area | Snow Reading | Water Content |
|---------------------|--------------|---------------|
| 5 year average..... | 37.8 inches | 16.5 inches |
| 1939 | 30.2 inches | 13.9 inches |
| 1940 | 34.5 inches | 16.5 inches |
| White River Area | | |
| 5 year average..... | 25.2 inches | 10.6 inches |
| 1939 | 20.0 inches | 9.8 inches |
| 1940 | 25.8 inches | 10.1 inches |

It would appear from these readings that water supply conditions would be somewhat improved over that of 1939. However, current weather following was unfavorable for holding back the runoff. Consequently, an early runoff again occurred as in 1939.

Excess in temperature averages and below normal precipitation prior to and during the growing season, were not entirely unfavorable for crop growth. Hay and grain crops are much better in most of the area than they have been for the past several years.

Unusually warm and dry conditions continued throughout July and August; rains were decidedly scattered. Irrigation water held up very well, with but few exceptions, to the middle of July. Most crops were well along and the hot and dry conditions which followed were not materially deteriorating to crops except lettuce and vegetables, which suffered most by lack of irrigation water and excess temperatures.

During September, the average temperature was above normal and precipitation approximately double the normal amount. Grain and potatoes were injured by continuous wet weather, principally in District 58.

The effects of drought were detrimental to ranges. The range greened slowly, due to frequent periods of cold earlier in the season and lack of sufficient moisture, and sufficient water for stock purposes was a problem on some ranges where water was usually plentiful for such purpose. Consequently, some ranges were temporarily abandoned.

Water Commissioner, District No. 57, reports as follows on local situation:

“The season of 1940 was drier than 1939 but the weather and temperatures during the growing season and irrigation water was plentiful in the early part of the season. So, when the irrigation water failed, most of the crops were made. The hay turned out 50% better than last year. No trouble of any consequence was encountered this year in administration even though water was shorter than usual. Four headgates and six Parshall measuring flumes of various sizes were installed.

“No rains occurred during the season that were of any material benefit to the crops.

“No shortage of water occurred on the Yampa River in this district. On tributaries which cover 25% of the irrigated area of the district, the supply was less than 5% of the requirements.”

Water Commissioner, District No. 43, reports, “this season was even drier in some respects than 1939. There was less available water in the small streams. Some ditches did not receive any water the entire season. While the White River was apparently lower than last season, the available water supply was adequate for all demands.

“The prevailing weather was less severe than 1939, there being no frosts, less hot winds, with more even temperatures.

“As to administration, everything went along more smoothly than last season.”

CROPS

Lettuce and vegetable shipments in the Yampa section were very light this season, due to the long, dry period in July and August and poor marketing conditions during the shipping season. The lettuce netted the grower about 60c per crate and spinach about ½c per pound. Mixed vegetables were lettuce and spinach in the same car.

The following is a record of shipments of lettuce, spinach, etc., for season 1940:

| | |
|---------------|----------|
| Lettuce | 76 cars |
| Spinach | 20 cars |
| Mixed | 28 cars |
| | — |
| Total..... | 124 cars |

This is slightly under the 1939 shipments and about 50% of average shipments.

From the best available information at hand, it is estimated that better than 1,000 tons of baled hay (Timothy and Clover) have been trucked out of the Yampa Valley this fall, and several hundred tons by railroad. The baling of hay and hauling is still in progress at this time. The price received, average \$14.00 per ton f.o.b. Steamboat Springs.

The hay quarantine, which has been in effect for the past several years, has been removed, which accounts for shipment outside of the district which has heretofore not been permitted.

It will be noted in the Water Commissioner's report in District No. 58, that irrigated pasture acreage has increased to over 10,000 acres, over an average reported of approximately 2,000. All such pasture acreage is former hay meadows.

This is the result of two things, each being probably an equal factor. First, due to former restrictions on hay shipments, decrease in cattle feeding and increase in sheep raising, the demand and available market for hay has been declining over the past few years.

Second, there are many small sheep owners who are unable to obtain sufficient range and are required to provide pasture.

Small grain and potato crops, which in this area are not considered an irrigated crop, are above the average in production. There was considerable loss in wheat in the area around Steamboat Springs on account of continual storms and wet weather during September and October.

On the average for the Division, everything has been successful for the farmer and stockmen. Some products were down both in price and yield, both due to unusual conditions. The past season, the stockmen have experienced the best year for several years, the principal reason probably being the increase in prices. The quality of livestock has been improved this year due to good pasture and feed resulting from favorable spring conditions.

The wheat farmers had a very good year in that yields were above the average. The wheat was of exceptional quality. Prices, however, have been very unsatisfactory and not much wheat has been moved at this time, shipments to date being 20 cars, price 60c to 65c per bushel.

The lettuce and spinach growers in the Yampa-Toponas area experienced one of their worst years. This is attributed to poor planting conditions, with top soil drying out too fast for the small seed.

The potato situation has been favorable from the production standpoint. The price of potatoes, however, has been very low and no potatoes have been moved.

The certified potato growers had a good year with good yield and high quality. The price outlook, however, is low and the demand not up to average.

The past two years, although subnormal as to water supply and adverse weather conditions, has resulted in no specific difficulties of administration.

Installation of measuring devices has continued without difficulty on all ditches requiring the services of the water commissioners. However, not much progress has been made on the installation of measuring devices on those ditches drawing water from the main Yampa, Elk and White Rivers, where water supply is usually sufficient for their needs.

District No. 57

Of 20 reservoirs reported in District No. 57, 13 adjudicated reservoirs for irrigation with combined capacity of 61,678,282 cubic feet were used for stock water only, during 1940.

Five reservoirs, total capacity of 58,354,906 cubic feet, were used for irrigation.

Two reservoirs, totaling 25,010,803 cubic feet, were not used due to poor condition of dams and outlet works.

Reservoirs

The Yampa Reservoir No. 1, constructed by the Yampa Reservoirs Public Irrigation District on the Yampa River seventeen miles south of the town of Yampa, was completed in September of this year and storage was permitted to start therein on September 30th.

The reservoir capacity is about 6,000 acre-feet. The water stored therein is to be used primarily to supplement the irrigation water supply of existing ditches in the district.

A 10-foot throat concrete Parshall measuring flume was installed in the river channel about 100 feet below the reservoir outlet.

One 4-foot and one 2-foot throat lumber Parshall measuring flumes were installed during September in the principal streams supplying this reservoir. In addition, there are two small streams on the south side of the reservoir which had a combined flow estimated at .25 c.f.s.

During the month of October, readings were obtained on the supply and there was an average of 5 c.f.s. or 10 acre-feet per day being stored during the month of October; a total of 310 acre-feet for the month.

This estimate will be a fair average for the winter months through to April 1st.

The following gauge heights have been noted since the closing of the valve:

| | |
|---------------------|-----------|
| October 6th | 5 feet |
| October 9th | 5.5 feet |
| October 10th | 5.52 feet |
| October 14th | 6.05 feet |
| October 17th | 6.50 feet |
| October 22nd | 6.80 feet |
| October 26th | 7.20 feet |
| November 3rd | 8.00 feet |
| November 14th | 9.00 feet |

A 4,000 acre-foot reservoir is contemplated for supplemental irrigation for approximately 3,000 acres of land on Elk Head Creek in District No. 44. Isadore Bolten and Earl Van Tassel expect to personally finance and construct the above reservoir and will start work as soon as all government and state requirements are met and when local conditions will permit the construction work next summer.

Construction was started on the Ramshorn Reservoir Dam in District No. 58 late this fall. This work was ordered discontinued pending more favorable weather conditions. The owners expect to complete same next summer.

Attached hereto are tabulated statements of Water Commissioners' ditch and reservoir reports.

Yours very truly,

B. T. CHASE,
Irrigation Division Engineer, Division No. 6.

TABULATION WATER COMMISSIONERS' ANNUAL DITCH REPORT, 1940

| District No. | No. of Ditches Reported | Amt. of Appropriation, Cu. Ft. Per Sec. | Capacity of Canal | Length of Main Ditch, Miles | Length of Laterals, Miles |
|----------------------|-------------------------|---|-------------------|-----------------------------|---------------------------|
| 43 | 68 | 203.45 | 590.32 | 105 | ... |
| 44 | 144 | 434.24 | 755.15 | 205 | 417 |
| 54 | 44 | 65.81 | 236.00 | 44 | ... |
| 55 and 56—no reports | | | | | |
| 57 | 58 | 299.79 | 475.00 | 155 | ... |
| 58 | 285 | 955.40 | 1,489.67 | 315 | ... |
| Totals | 599 | 1,958.69 | 3,546.14 | 824 | 417 |

| District No. | First Day Water Used from Natural Stream | Last Day Water Used from Natural Stream | Average No. of Days Water Carried from Natural Stream | Average Daily Amount of Water During Season (Cu. Ft. Per Sec.) | No. of Acre-Feet Used by Canal |
|--------------|--|---|---|--|--------------------------------|
| 43 | 1- 1 | 11-15 | 90 | 183.16 | 43,558 |
| 44 | 3-27 | 8-22 | 53 | 443.21 | 56,556 |
| 54 | 4-19 | 10-25 | 58 | 114.81 | 14,912 |
| 57 | 3- 1 | 10-21 | 78 | 210.69 | 51,578 |
| 58 | 4- 1 | 10-17 | 85 | 758.27 | 133,020 |
| Totals | | | 73 | 1,710.14 | 299,624 |

| District No. | Total No. of Acres That Can Be Irrigated | Alfalfa | Natural Grasses | Cereals | Pasture |
|--------------|--|---------|-----------------|---------|---------|
| 43 | 9,392 | 4,223 | 4,082 | 381 | ..... |
| 44 | 28,915 | 13,485 | 6,810 | 2,835 | ..... |
| 54 | 9,280 | 1,500 | 3,570 | 610 | ..... |
| 57 | 16,223 | 825 | 11,448 | 39 | ..... |
| 58 | 57,579 | 699 | 34,435 | 2,403 | 10,876 |
| Totals | 121,389 | 20,732 | 60,345 | 6,268 | 10,876 |

TABULATION WATER COMMISSIONERS' ANNUAL DITCH REPORT, 1940
—Continued

| District No. | Market Gardens | Potatoes | Sugar Beets | Spinach | Peas |
|--------------|----------------|----------|-------------|---------|------|
| 43 | .. | 35 | .. | .. | .. |
| 44 | .. | 20 | .. | .. | .. |
| 54 | .. | 34 | .. | .. | .. |
| 57 | .. | .. | .. | .. | .. |
| 58 | 37 | 97 | .. | 365 | .. |
| Totals | 37 | 186 | .. | 365 | .. |

| District No. | Lettuce | Mixed Vegetables | Total Irrigated | Repairs | Improvements |
|--------------|---------|------------------|-----------------|-------------|--------------|
| *43 | .. | .. | 8,721 | \$ 80.00 | \$ 385.00 |
| †44 | .. | .. | 23,150 | 5,775.00 | 350.00 |
| ‡54 | .. | .. | 5,714 | 4,050.00 | ..... |
| ‡57 | .. | .. | 12,312 | 2,800.00 | ..... |
| ‡58 | 506 | 107 | 49,525 | 915.00 | 635.00 |
| Totals | 506 | 107 | 99,422 | \$13,620.00 | \$ 1,370.00 |

REMARKS

*W. C. reports ditches only administered during 1940.

†Nearly complete report.

‡Four ditches, no water to supply ditch. Complete report.

TABULATION WATER COMMISSIONERS' ANNUAL RESERVOIR REPORTS, 1940

| District No. | No. in District Reported | Area of High Water Line, Acres | Capacity in Cubic Feet | Quantity of Water in Reservoir May 1st, Cu. Ft. |
|--------------|--------------------------|--------------------------------|------------------------|---|
| 43 | 4 | .. | 14,100,983 | 6,043,232 |
| 44 | 1 | 33 | 17,460,154 | 3,100,000 |
| 54 | 2 | 32 | 18,791,232 | 5,056,908 |
| 57 | 20 | 352 | 165,477,490 | 120,033,118 |
| 58 | 20 | 692 | 417,466,917 | 97,464,494 |
| Totals | 47 | 1,121 | 633,295,885 | 231,697,752 |

| District No. | Quantity of Water in Reservoir in Nov. 1st, Cu. Ft. | First Day Water Used | Last Day Water Used | Av. No. Days Water Carried |
|--------------|---|----------------------|---------------------|----------------------------|
| 43 | 283,245 | 4-1 | 9-30 | 17 |
| 44 | 4,000,000* | 5-11 | 8-25 | 23 |
| 54 | 3,129,538* | 7-7 | 8-13 | 25 |
| 57 | None† | 2-24 | 8-13 | 25 |
| 58 | 500,000 | 2-24 | 10-10 | 17 |
| Totals | 7,912,783 | | | 23 |

*Reservoir filled after May 1st.
 †50-50 stock water and irrigations.

| District No. | Av. Daily Amt. of Water Carried in Cu. Ft. | No. Acre Feet of Water Carried | Alfalfa | Natural Grasses | Cereals |
|--------------|--|--------------------------------|---------|-----------------|---------|
| 43 | 1.31 | 196 | 25 | 10 | 25 |
| 44 | 7.29 | 1,080 | 300 | 100 | .. |
| 54 | 7.50 | 315 | .. | .. | .. |
| 57 | 6.41 | 640 | 366 | 290 | .. |
| 58 | 31.88 | 2,305 | 25 | 215 | 100 |
| Totals | 54.30 | 4,536 | 716 | 615 | 125 |

| District No. | Potatoes | Total Irrigated | Superintendence | Repairs | Improvements |
|--------------|----------|-----------------|-----------------|-------------------|--------------|
| 43 | 15 | 75 | \$ 75.00 | .. | \$ 60.00 |
| 44 | .. | 400 | .. | \$100.00 | .. |
| 54 | .. | .. | .. | *All supplemental | .. |
| 57 | .. | 656 | .. | .. | † |
| 58 | 50 | 390 | .. | .. | .. |
| Totals | 65 | 1,521 | \$ 75.00 | \$100.00 | \$ 60.00 |

*Water reported on Ditches.
 †1,340 Ac. Ft. storage for irrigation. 1,415 Ac. Ft. storage stock water and pasture.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 7 FOR THE SEASON OF 1939

Durango, Colorado, November 8, 1939.

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir:

This is to submit for your approval the Annual Report of Irrigation Division Engineer of Irrigation Division No. 7 for the seasonal year of 1939.

Included in this report are tables of precipitation, accumulated snow depths at high elevations on the principal watersheds, water supply and runoff, use of water, crops and irrigation developments and the tabulation of water commissioners' annual ditch and reservoir reports.

Respectfully yours,

J. R. WILLIAMS,
Irrigation Division Engineer.

Annual Report of Irrigation Division Engineer
Irrigation Division No. 7, 1939

TABLE OF PRECIPITATION, 1938-39

Inches

Weather Bureau Station and Elevation

| Month | Cascade 8,853 | | Cortez 6,177 | | Durango 6,525 | | Ft. Lewis 7,610 | | Ignacio 6,425 | | Rico 8,714 | | Silverton 9,415 | |
|------------------------|------------------|-------|-----------------|-------|------------------|-------|--------------------|-------|------------------|-------|---------------|-------|--------------------|-------|
| | Amt. | Dep. | Amt. | Dep. | Amt. | Dep. | Amt. | Dep. | Amt. | Dep. | Amt. | Dep. | Amt. | Dep. |
| Oct., 1938..... | 2.76 | +0.24 | 1.41 | +0.21 | 0.93 | -0.84 | 2.04 | +0.56 | 1.74 | +0.48 | 2.82 | +1.35 | 3.89 | +1.69 |
| Nov., 1938..... | 1.50 | -0.39 | 0.73 | -0.11 | 0.25 | -1.12 | 0.47 | -0.50 | 0.17 | -0.87 | 2.11 | +0.69 | 0.57 | -0.83 |
| Dec., 1938..... | 2.12 | -0.27 | 0.52 | -0.52 | 0.95 | -0.78 | 0.63 | -0.65 | 0.54 | -0.54 | 1.32 | -0.41 | 1.19 | -0.51 |
| Jan., 1939..... | 3.51 | +0.89 | 1.19 | +0.22 | 1.90 | +0.32 | 1.51 | +0.45 | 1.48 | +0.41 | 3.25 | +0.93 | 2.67 | +0.85 |
| Feb., 1939..... | 1.89 | -0.71 | 0.79 | -0.81 | 1.18 | -0.54 | 1.63 | -0.07 | 0.91 | -0.28 | 2.91 | +0.81 | 0.98 | -0.70 |
| Mar., 1939..... | 2.76 | -0.60 | 1.34 | +0.33 | 1.49 | +0.33 | 2.05 | +0.61 | 1.15 | -0.32 | 2.05 | -0.55 | 1.44 | -1.39 |
| Total 6 Mos..... | 14.54 | -0.84 | 5.98 | -0.68 | 6.71 | -2.63 | 8.33 | +0.40 | 5.99 | -1.12 | 14.46 | +2.82 | 10.74 | -0.89 |
| April | 1.12 | -1.15 | 0.64 | -0.13 | 0.51 | -1.10 | 0.64 | -0.51 | 0.91 | -0.32 | 0.90 | -0.55 | 1.22 | -0.48 |
| May | 0.10 | -1.29 | 0.01 | -0.89 | 0.32 | -0.75 | 0.17 | -0.70 | 0.21 | -0.70 | 0.54 | -0.91 | 0.61 | -0.68 |
| June | 0.17 | -1.01 | 0.00 | -0.43 | 0.12 | -0.77 | 0.00 | -0.76 | T. | -0.82 | 0.08 | -1.20 | 0.54 | -1.03 |
| July | 1.68 | -1.28 | 0.56 | -1.31 | 0.48 | -1.73 | 1.05 | -1.44 | 0.85 | -1.46 | 1.60 | -1.20 | 1.21 | -1.62 |
| Total April-July.... | 3.07 | -4.73 | 1.21 | -2.76 | 1.43 | -4.35 | 1.86 | -3.41 | 1.97 | -3.30 | 3.12 | -3.86 | 3.58 | -3.81 |
| % Def. April-July..... | 61 | | 70 | | 73 | | 65 | | 62 | | 55 | | 52 | |
| Aug. | 2.39 | ... | 0.94 | -0.57 | 1.51 | -0.75 | 2.15 | -0.19 | 0.78 | -1.44 | 1.96 | -0.91 | 2.13 | -0.99 |
| Sept. | 4.75 | +1.90 | 2.30 | +0.82 | 3.31 | +1.53 | 4.10 | +2.23 | 2.15 | +0.70 | 3.61 | +0.82 | 3.92 | +1.04 |
| Total Oct.-Sept..... | 24.75 | -4.13 | 10.43 | -3.19 | 12.96 | -6.20 | 16.44 | -1.77 | 10.89 | -5.16 | 23.15 | -1.13 | 20.37 | -4.65 |
| % Def. Oct.-Sept..... | 14 | | 23 | | 32 | | 10 | | 32 | | 5 | | 19 | |

Snow Surveys and Water Forecasts, 1939

| Sta. No. | Main Drainage | Local Drainage | Locality | Elev. | March 1 | | April 1 | | May 1 | |
|----------|---------------|----------------|-------------|--------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| | | | | | Snow Depth Ins. | Water Cont. Ins. | Snow Depth Ins. | Water Cont. Ins. | Snow Depth Ins. | Water Cont. Ins. |
| 29 | San Juan | San Juan | Wolf Cr. | 10,000 | 80.2 | 21.9 | 70.5 | 28.3 | 44.8 | 20.9 |
| 30 | San Juan | Animas | Silver-ton | 9,400 | 20.8 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 31 | San Juan | Cascade | Cr.Cascade | 8,850 | 33.2 | 8.9 | 12.5 | 4.8 | 0.0 | 0.0 |
| 23 | Dolores | Dolores | Near Rico | 8,700 | 27.2 | 6.2 | 7.7 | 2.7 | 0.0 | 0.0 |
| 25 | Dolores | Dolores | Lizard Head | 10,300 | 46.3 | 12.2 | 43.7 | 12.7 | 26.7 | 11.0 |

The above table of figures are taken from the monthly reports of Bureau of Agricultural Engineering. On April 1st it was stated, "on the watersheds of Dolores and San Juan Rivers the snow cover is definitely less than last year." On the first of May report it was stated, "from the watersheds of Dolores and San Juan—the runoff will be much below normal."

The average water content at four courses on the San Juan was 9.8 inches which was 28 percent less than the four-year average and 35 percent less than in 1938 as of May 1st.

Precipitation

During March slight excesses were recorded at Durango, Cortez and Ignacio but deficiencies were shown at Cascade, Rico and Silverton. The total departure from the average from October, 1938, to March, 1939, was very slight. Small deficiencies existed at most stations but an excess of 2.82 inches or 24 percent was shown at Rico. From April to July inclusive, the average of total precipitation as measured at seven weather bureau stations within the division was 38 percent of the average or 62 percent deficient.

The combination of fast receding snow at high elevations during the early spring months, and lack of precipitation, low temperatures at night and windy days, brought about one of the worst if not the most severe drought ever experienced by white men in the San Juan and Dolores Basins.

The most outstanding official confirmation of drought was recorded at Cortez where 0.01 inch of rain fell during May and June. With the exception of 0.05 inch on April 30th and 0.01 inch on the 14th of May, there was no recorded precipitation at this station from April 4th to July 27th, a period of one hundred and fifteen days. Weather Bureau Records at other stations do not reveal so complete a lack of rain during the same period but conditions were practically the same over the entire division.

Temperatures and Wind

Temperatures were generally lower than normal. At Durango the mean minimum during June was thirty-nine degrees. A low of twenty-eight on the 18th and a high of forty-seven on the 5th.

No records are published of the evaporation and wind at Durango. Day temperatures were about normal but dry winds of considerable velocity occurred almost daily during April, May, June and July. On June 15th considerable damage was done by a high wind which was accompanied by dust from Utah and Arizona.

The low temperature or frost on June 18th did considerable damage to alfalfa and to row crops. The damage was spotted which made the situation worse than if crops had been completely killed as replanting could not be done.

Water Supply

The discharge of several streams from April to July, 1939, the relation to the average and to the runoff in 1938 is shown by the following tables:

ANIMAS RIVER AT DURANGO

Flow in Acre Feet

| | April | May | MONTH | | Total |
|---------------------------|--------|---------|---------|--------|---------|
| | | | June | July | |
| Mean flow 38 years..... | 60,900 | 158,040 | 184,770 | 77,370 | 481,080 |
| 1939 flow..... | 47,750 | 113,750 | 78,910 | 26,710 | 265,120 |
| 1939 percent of mean..... | 75 | 72 | 43 | 35 | 55 |
| Percent of 1938..... | 56 | 78 | 37 | 28 | 49 |

DOLORES RIVER AT DOLORES

Acre Feet

| | April | May | MONTH | | Total |
|------------------------------|--------|---------|--------|--------|---------|
| | | | June | July | |
| Mean flow 27 years..... | 48,530 | 112,600 | 81,220 | 24,380 | 266,730 |
| 1939 flow..... | 42,330 | 70,570 | 27,460 | 5,450 | 145,810 |
| Percent of mean in 1939..... | 87 | 63 | 34 | 22 | 55 |
| Percent of 1938..... | 49 | 56 | 21 | 17 | 39 |

PINE RIVER NEAR BAYFIELD

Acre Feet

| | April | May | MONTH | | Total |
|---------------------------|--------|--------|--------|--------|---------|
| | | | June | July | |
| Mean flow 11 years..... | 25,700 | 65,120 | 69,680 | 28,600 | 189,100 |
| 1939 flow..... | 22,660 | 58,460 | 32,500 | 10,270 | 123,890 |
| 1939 percent of mean..... | 88 | 90 | 47 | 36 | 66 |
| 1939 percent of 1938..... | 62 | 75 | 27 | 24 | 45 |

LA PLATA RIVER AT HESPERUS

Acre Feet

| | April | May | MONTH | | Total |
|-----------------------------|-------|--------|-------|-------|--------|
| | | | June | July | |
| Mean flow for 22 years..... | 5,950 | 12,280 | 9,110 | 2,370 | 29,710 |
| 1939 flow..... | 4,070 | 5,590 | 2,290 | 541 | 12,491 |
| 1939 percent of mean..... | 68 | 45 | 25 | 23 | 42 |
| 1939 percent of 1938..... | 39 | 42 | 25 | 21 | 35 |

Of the preceding group the La Plata at Hesperus was most deficient. The Mancos River near Mancos became as low as the La Plata. In relation to the average, Pine River again proved to be the best natural stream in the division, the percentage for 1939 being 66 percent during the four-month period while the Animas and Dolores delivered 55 percent.

The early official prediction or forecast that the flow of the San Juan and Dolores Rivers would be much below normal proved to be correct. Weather conditions which could not be predicted were as important a factor in relation to stream flow as the

existing accumulated snow supply at the beginning of the irrigation season. Moral: Only those who have Divine Dispensation should make forecasts.

Runoff of small streams was practically depleted by June 1st. During April, May and June the surface supply was better than in 1934 but the combination of short supply, lack of rain and other adverse factors combined to bring about a more severe condition than existed during the summer of 1934 which was the previous low year of record.

Of the approximate 2,500,000 acre-feet of water which has developed annually in the San Juan and Dolores Rivers in Colorado the year 1939 was deficient about 1,125,000 acre-feet or 45 percent.

Use of Water

There was diverted a total of 357,400 acre-feet from the natural streams for the irrigation of 140,444 acres. This was 89 percent of the amount diverted in 1938. Headgate duty was 2.53 acre-feet per acre. It is odd that so great a quantity of water was diverted in a drought year but diversions were unseasonal. 16,364 acre-feet was diverted from storage and was applied on about 8,000 acres, partly supplemental to natural flow.

Use of water was restricted in some towns during July because of low stages of flow at source of supply. This applied particularly to the towns of Mancos and Cortez. The Town of Mancos owns 1.60 s.f. of Priority No. 3 and is diverted from West Mancos. When No. 3 failed, the owners of No. 2 gave the town 0.5 s.f. for domestic use. It looked bad for the City of Durango when the stream flow was at low point during July. The City owns 7.5 s.f. of the earliest water of the Florida River and this was at all times available for diversion and use was not restricted. In fact the City water was given to farmers at different periods to fill ponds and cisterns.

An inspection of the Durango City Reservoir which is located at the head of the Florida River and which impounds 456 acre-feet, disclosed on July 23rd that the dam, which is of log and rock fill type, was leaking so badly through the rocks and through the outlet that only 200 acre-feet remained in storage at that date. It was apparent that at the rate of loss there would be no water left in storage for the City in a short period if the drought continued.

Crops

Areas irrigated from small streams were the hardest hit and there was a complete crop failure in a large part of such areas. Lands irrigated from the larger streams where sufficient water was used early had at the maximum a 50 percent hay crop. Crops over the division ranged from failure to 50 percent of normal

for hay, from nothing to 30 percent of cereal crops. Range conditions became so poor because of lack of forage and water that many herds were moved from summer ranges to farms or to market. Rains came during the last few days of July. August rainfall was some under the average which made the sixth consecutive month of deficient rainfall. Ground water became exhausted. Springs, wells and watering places dried up. Heavy rains came during September in sufficient time to make the fall and winter ranges good.

Developments, Improvements and Construction

The need of storage facilities to supply supplemental water was made more than apparent again this year. Particularly in the La Plata and Mancos sections where efforts continue to secure funds for dam construction but with no success to date. The Bureau of Reclamation continues studies of requirements and costs for such areas.

The large Vallecito Dam on Pine River is 61 percent complete. Forty-two percent of time for completion has elapsed. The dam is completed with exception of temporary diversion channel to El. 7625 which is 45 feet above the outlet tubes, 21 feet below spillway crest and 48 feet below crest of dam.

The Ground Hog Dam on headwaters of Dolores tributary is practically completed. The dry season was favorable for construction work.

The small Webber Reservoir Dam near Mancos is being raised this fall to a height of 24 feet under approved plans for a thirty-foot dam. This is an earth fill dam and the work is being done by a mutual company under the Webber Ditch. Ultimately about 700 acre-feet of water will be made available to such owners as supplemental for about 700 acres and will solve their water troubles with small outlay of capital as the work is being done with their own teams and labor. Reservoir stock is taken as payment for work done in lieu of wages. This is a Mormon controlled project.

The Summit Reservoir Company has repaired the westerly dike of the Summit Dam where a slip occurred last June. The Bauer Lakes Water Company are working on the No. 2 dam. Outlet tube is extended and the earth fill on lower toe is being placed. The budgeted amount of work in the amount of twelve hundred dollar expenditure will be done this fall if weather permits. This work is being done to raise the dam to sufficient height to permit storage of full capacity which has been restricted the last three years for safety.

The Taylor Reservoir Dam located in Cumberland Basin in the La Platas at elevation 11,600 feet has been raised a few feet, new outlet tube and gate installed, spillway widened so that about

55 acre-feet can be stored. This is an individually owned project to supply supplemental water for about 80 acres on Ft. Lewis Mesa.

The Florida Reservoir (Pastorius) has been repaired at the easterly dike so that a full decree or capacity of 960 acre-feet can be stored. The amount of storage in this reservoir has been restricted for two years because of eroded face of the dike.

The Montezuma Valley Irrigation Co. expended \$3,150 in grouting the foundation and abutments of the Narraguinepp Dam. If such operations prove successful the leakage through the footing and abutments will be stopped, the dam will be more secure and loss of considerable water will be prevented.

This year has been the most active in respect to irrigation development by dam construction ever experienced in this division. When completed the projects under construction will provide more than ten times the amount of water than is now stored

IRRIGATION DIVISION NO. 7

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR IRRIGATION SEASON OF 1939

| District No. | Number of Ditches Reported | Number of Privories Reported | Amount Appropriated In Cu. Ft. | Capacity of Canals In Cu. Ft. | Length of Canals (Miles) | First Day Water Was Used from Natural Stream |
|--------------|----------------------------|------------------------------|--------------------------------|-------------------------------|--------------------------|--|
| * 29 | 220 | 236 | 589 | 639 | 48 | |
| 30 | 175 | 218 | 608 | 940 | 240 | Apr. 1 |
| 31 | 65 | 77 | 683 | 1,041 | 184 | Apr. 27 |
| 33 | 41 | 49 | 292 | 448 | 66 | Apr. 1 |
| 34 | 62 | 89 | 799 | 1,005 | 124 | Apr. 1 |
| 69 | 28 | 33 | 108 | 123 | 22 | Apr. 20 |
| Totals | 591 | 702 | 3,079 | 4,196 | 684 | |

*No Report. Estimated by Division Engineer.

| District No. | Last Day Water Was Used from Natural Stream | Number Days Water Was Used | Average Daily Amount Used (Cu. Ft.) | Number of Acre Feet Used from Natural Stream | *Number of Acres That Can Be Irrigated |
|--------------|---|----------------------------|-------------------------------------|--|--|
| 29 | | | | | 43,000 |
| 30 | Nov. 15 | 229 | 249 | 113,850 | 64,667 |
| 31 | Oct. 31 | 188 | 322 | 121,443 | 55,901 |
| 33 | Oct. 22 | 181 | 36.0 | 13,048 | 35,000 |
| 34 | Oct. 22 | 205 | 250 | 102,310 | 61,065 |
| 69 | Sept. 21 | 92 | 36.7 | 6,760 | 4,808 |
| Totals | | 229 | 780 | 357,411 | 264,441 |

*No Report. Estimated by Division Engineer.

| District No. | CROPS IRRIGATED | | | | | |
|--------------|-----------------|-----------------|---------|----------|----------------|----------|
| | Alfalfa | Natural Grasses | Cereals | Orchards | Market Gardens | Potatoes |
| 29 | | | | | | |
| 30 | 9,918 | 4,624 | 5,771 | 703 | 12 | 453 |
| 31 | 12,857 | 8,670 | 10,713 | 212 | | 243 |
| 33 | 4,133 | 1,200 | 2,118 | 15 | 66 | 77 |
| 34 | 13,160 | 13,800 | 11,170 | 1,214 | 65 | 905 |
| 69 | 1,091 | 725 | 765 | 20 | 15 | 48 |
| Totals | 41,559 | 29,019 | 30,537 | 2,164 | 158 | 1,726 |

| District No. | CROPS IRRIGATED | | | | COST (DOLLARS) | | |
|--------------|-----------------|------|-------------|-----------------|-----------------|-------------|--------------|
| | Beans | Peas | Other Crops | Total Irrigated | Superintendence | Repairs | Improvements |
| 29 | | | | *25,000 | | | |
| 30 | | | | 21,481 | \$ 6,025.60 | \$16,562.50 | \$ 800.00 |
| 31 | 94 | 30 | 3,921 | 36,740 | 9,000.00 | 20,259.00 | 24,680.00 |
| 33 | | | | *3,000 | | | |
| 34 | 83 | | 93 | 7,785 | 532.74 | 1,335.34 | \$42.87 |
| 69 | 1,900 | | 1,356 | 43,570 | 20,134.00 | 29,353.00 | 13,950.00 |
| | | | 204 | 2,868 | | 1,283.00 | |
| Totals | 2,077 | 30 | 5,574 | 140,444 | \$35,692.34 | \$68,792.84 | \$40,272.87 |

*Estimated by Division Engineer.

Other crops includes 1,195 acres of clover seed, small acreage of alfalfa and flower seed crops.

IRRIGATION DIVISION NO. 7

TABULATION OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORTS FOR 1939

| District No. | Number of Reservoirs in District | Area of High Water Line (Acres) | Capacity in Acre Feet | Amount in Storage on May 1st | Amount in Storage on Nov. 1st |
|--------------|----------------------------------|---------------------------------|-----------------------|------------------------------|-------------------------------|
| 29 | 3 | ..... | ..... | ..... | ..... |
| 30 | 3 | 899 | *25,394 | 11,348 | 21,422 |
| 31 | 1 | 354 | 1,770 | 0 | 0 |
| 33 | 1 | 36 | 576 | 493 | 0 |
| 34 | 5 | 920 | 14,670 | 14,670 | 0 |
| 69 | 1 | 16 | 50 | 50 | 0 |
| Total | 14 | 2,225 | 42,460 | 26,561 | 21,422 |

CROPS IRRIGATED

| District No. | First Day Water Was Used from Storage | Last Day Water Was Used from Storage | Number of Days Water Was Used | Average Daily Amt. Used | Number of Acre F. Used | Alfalfa | Natural Grasses |
|--------------|---------------------------------------|--------------------------------------|-------------------------------|-------------------------|------------------------|---------|-----------------|
| 30 | June 20 | July 20 | 20 | 8.0 | 320 | 100 | ... |
| 33 | May 12 | Aug. 22 | 21 | 10.3 | 431 | 156 | ... |
| 34 | Apr. 15 | Oct. 15 | 180 | 43.3 | 15,574 | 1,125 | 650 |
| 69 | June 20 | July 7 | 18 | 1.1 | 39 | 70 | ... |
| Totals | | | 180 | 45.4 | 16,364 | 1,451 | 650 |

CROPS IRRIGATED

| District No. | Cereals | Orchards | Market Gardens | Potatoes | Beans | Other Crops | Total Irrigated |
|--------------|---------|----------|----------------|----------|-------|-------------|-----------------|
| 30 | 400 | 20 | .. | 10 | .. | .. | 530 |
| 33 | 142 | 6 | 11 | 12 | .. | .. | 327 |
| 34 | 4,140 | 445 | .. | 175 | 75 | 485 | 7,095 |
| 69 | 90 | 1 | .. | .. | .. | .. | 161 |
| Totals | 4,772 | 472 | 11 | 197 | 75 | 485 | 8,113 |

| Dist. No. | COST (DOLLARS) | | |
|-----------|-----------------|------------|----------------|
| | Superintendence | Repairs | Improvements |
| 30 | \$1,180.00 | \$1,975.20 | ..... |
| 31 | ..... | ..... | †\$ 986,000.00 |
| 33 | 190.56 | ..... | 750.00 |
| 34 | 885.00 | 7,974.20 | ‡302,500.00 |
| Totals | \$2,255.56 | \$9,949.40 | \$1,289,250.00 |

*23,976 acre feet capacity of Electra Lake used for power development only.

†\$986,000 estimated cost of Vallecito Dam construction for 1939.

‡Includes cost of Ground Hog Reservoir Dam at \$300,000.00.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 7 FOR THE SEASON OF 1940

Durango, Colorado, November 23, 1940.

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir:

Herewith is submitted for your approval the Annual Report for Irrigation Division No. 7 for the irrigation season of 1940.

Respectfully yours,

J. R. WILLIAMS,
Irrigation Division Engineer, Irrigation Division No. 7.

**Annual Report of Irrigation Division Engineer
Irrigation Division No. 7, 1940
Water Supply**

Preliminary estimates of discharge of the Animas River at Durango for 1940 show the total runoff to have been 360,000 acre-feet or 55 percent of the mean for a period of 39 years of record. Summer flow, from April to July, inclusive, was 52 percent of the average. The water content of accumulated snow at Cascade as of April 1st was 5.3 inches or 50 percent of the average for the short period of record by the Bureau of Agricultural Engineering.

Estimates of the discharge of the Dolores River at Dolores give about 214,000 acre-feet or 66 percent of the mean for 29 years record. From April to July, inclusive, the runoff was 68 percent of the mean. Snow surveys on this stream as of April 1st indicated that there was 6.6 inches of accumulated water content which was 78 percent of the average at high elevations. Much of the accumulated water from snow was probably dissipated in replenishing ground water because of the preceding drought year.

The relation of runoff to the mean of the two above named streams was typical of runoff conditions on all other streams in the San Juan and Dolores River watersheds.

Precipitation

Total precipitation at Cascade on the Animas for the water year was 25.86 inches which was 3.08 inches or 11 percent deficient. At Rico on the Dolores the total was 27.05 inches which was plus 4.42 inches departure from the mean. Large excesses occurred for the months of January, February, April and Sep-

tember at both stations. Deficiencies occurred during all other months. At U. S. Weather Bureau Stations within the irrigated area the rainfall during the growing season was practically normal or equal to the mean. Excesses occurred during April, June, August and September with deficiencies during May and July.

Temperatures

During the growing season temperatures were consistently from one to three degrees above the average. Frost free period in the farming area was from May 7th to October 1st. The customary June freeze was not experienced although freezing temperatures were approached closely on June 9th.

Use of Water

A total of 419,830 acre-feet was diverted from the natural streams for irrigation. This amount was 17 percent greater than was diverted during 1939. A total of 146,360 acres were irrigated. Headgate duty was 2.87 acre-feet per acre; 24,416 acre-feet was used from storage for irrigation and domestic purposes.

Minimum stages of flow did not at any time become so critical as in 1939. No difficulty was experienced by Towns or Municipalities in obtaining sufficient water for domestic and sanitary use although the Town of Mancos was threatened with short supply for a few days in August.

Crops

As usually occurs, the areas irrigated from small streams did not have sufficient water to mature second crops of hay. Weather was favorable to crop growth and small grains, particularly wheat crops were made. The moisture conditions of the soil was excellent during the early spring and the moisture was at least partially retained on areas in fall wheat by mulching and packing the ground. Crop yields on such lands averaged about 25 bushels per acre. On lands which received from one to two irrigations the yields averaged about 40 bushels per acre with some yields reported as high as 60 bushels.

Lands having junior water rights on the main streams and those receiving water from small streams irrespective of priority and without supplemental water from storage produced one cutting of hay.

Farmers of Montezuma Valley claim that the supplemental water from Ground Hog Reservoir in addition to the Narraguinepp storage enabled them to make second crops of hay and to increase the yield of other crops although the amount of such additional storage was only 8,100 acre-feet, 7,630 acre-feet being released to the stream for irrigation diversion by the Main Nos. 1 and 2 Canals.

Excessive rains during late September were too late generally for benefit to crops but did serve to make abundant fall and winter pasture. Some difficulty was had in the harvesting because of heavy rains in September and October.

Developments, Improvements and Construction

The Vallecito Dam on Pine River to impound 130,000 acre-feet is nearing completion. Embankment and rock paving are completed. Some concrete remains to be placed in the transition to the spillway and the outlet gates and spillway gates remain to be placed. Such items will in all probability be done during the winter months. Water will be stored during the spring of 1941 for late use and thus will begin the first year of stabilized agriculture, from the water supply viewpoint, in the Pine River Valley.

The small Taylor Reservoir, built last year in Cumberland Basin on the La Plata, failed this year because of overtopping. It is believed that the spillway became clogged with ice. Repairs have been made to the dam, more freeboard and larger spillway provided.

The Webber Reservoir Dam near Mancos, originally built 35 years ago, has been in a state of enlargement and repair for the past two years. The south embankment has been completed to proposed height. The north embankment remains to be completed. No water was stored in 1940.

Sections of the Beaver Creek and Fish Creek feeder canals were lost during the spring thaw because of slips and mud slides. The Fish Creek Canal was repaired so that some water was carried but the Beaver Creek Feeder was not repaired until late fall when a large section was rebuilt on more firm ground. Partially due to such failures there was stored in the Ground Hog Reservoir only 8,100 acre-feet or 37 percent of the capacity of 21,710 acre-feet.

During the late fall of 1939 the Bauer Lake No. 2 Dam was strengthened by placing an earth and rock berm at the lower toe of the main dam. The same type of repair is being done this year at the Bauer No. 1 Dam.

The Town of Cortez is building a small dam near Cortez to impound 70 acre-feet of water which it is estimated will carry the town through the ice period. This is a WPA Project and is about one-third completed.

The Jackson Gulch Reservoir Project near Mancos has been approved and the money allotted for construction under the Case-Wheeler Act. This is a \$1,400,000 project to provide 10,000 acre-feet of storage to supply Mesa Verde National Park and provide supplemental water for from 7,000 to 10,000 acres of farm land near Mancos. Cost to farmers will be about \$1.50 per acre annually plus operation and maintenance costs. Repayment costs have been assessed on ability to repay.

The La Plata Project (Long Hollow Reservoir) is being considered under the same act as the Mancos Project. Progress in the organization of the farmers and in formation of a Water Conservancy District has been slow and for that reason this project will probably fail to be approved in the near future.

Parshall measuring flumes of timber construction were placed on ditches in District No. 29 near Pagosa Springs. Several of the same type were installed on ditches taking water from the Dolores River. Flumes of reinforced concrete were installed on four canals. Such flumes were installed under supervision of the Division Engineer and Water Commissioners.

Administration

This was another short water year and many difficult administrative problems arose. Aside from the La Plata Compact administration of which a separate report will be made, the administration of water rights on the Dolores River was the most exacting particularly during the period of release of water from the Ground Hog Reservoir to the stream some 35 miles above Dolores. This required daily policing of the stream. There were some headgate violations and one arrest for such violation.

The old established custom of allowing almost constant diversions of small amounts of domestic water was stopped on the La Plata, Mancos and Florida Rivers. This forced the construction of small domestic tanks or ponds and the domestic water problem was largely solved.

IRRIGATION DIVISION NO. 7

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR IRRIGATION SEASON OF 1940

| District No. | Number of Priorities Reported | Amount Appropriated in Cu. Ft. | Capacity of Canals (Cu. Ft.) | Length of Canals (Miles) | First Day Water Was Used from Natural Stream |
|--------------|-------------------------------|--------------------------------|------------------------------|--------------------------|--|
| *29 | | †589 | †639 | †48 | |
| 30 | 25 | 608 | 842 | 233 | Apr. 1 |
| 31 | 47 | 685 | 1,020 | 186 | Apr. 22 |
| 33 | 45 | 292 | 451 | 68 | Mar. 25 |
| 34 | 87 | 785 | 975 | 72 | Apr. 1 |
| 69 | 7 | 134 | 157 | 21 | Mar. 22 |
| Totals | 461 | 3,093 | 4,084 | 628 | |

*No report. †Estimated by Division Engineer.

| District No. | Last Day Water Was Used from Natural Stream | No. Days Water Was Used from Natural Stream | Average Daily Amt. Used (Cu. Ft.) | Number of Acre Feet Used from Natural Stream | Number of Acres That Can Be Irrigated |
|--------------|---|---|-----------------------------------|--|---------------------------------------|
| *29 | | | | †75,000 | †43,000 |
| 30 | Nov. 15 | 220 | 208 | 91,390 | 64,820 |
| 31 | Nov. 4 | 197 | 296 | 116,460 | 57,410 |
| 33 | Nov. 12 | 182 | 26 | 19,310 | 21,450 |
| 34 | Oct. 31 | 214 | 257 | 110,000 | 64,420 |
| 69 | Aug. 14 | 127 | 30 | 7,670 | 4,990 |
| Totals | | 220 | 954 | 419,830 | 256,090 |

*No report. †Estimated by Division Engineer.

CROPS IRRIGATED

| District No. | Alfalfa | Natural Grasses | Cereals | Orchards | Market Gardens | Potatoes | Beans |
|--------------|---------|-----------------|---------|----------|----------------|----------|-------|
| *29 | | | | | | | |
| 30 | 9,679 | 4,395 | 6,316 | 699 | | 361 | |
| 31 | 13,381 | 11,218 | 11,943 | 207 | 133 | 262 | 114 |
| 33 | 4,697 | 1,473 | 4,484 | 48 | 96 | 88 | 305 |
| 34 | 14,251 | 8,727 | 13,482 | 1,187 | 282 | 1,148 | 2,000 |
| 69 | 1,086 | 845 | 845 | 21 | | 45 | 40 |
| Totals | 43,094 | 26,658 | 37,070 | 2,162 | 518 | 1,904 | 2,459 |

*No report. †Estimated by Division Engineer.

(COST, DOLLARS)

| District No. | Sugar Beets | Other Crops | Total Irrigated | Superintendence | Repairs | Improvements |
|--------------|-------------|-------------|-----------------|-----------------|----------|--------------|
| *29 | | | †25,000 | | | |
| 30 | | | 21,457 | \$ 2,667 | \$ 9,945 | \$ 5,564 |
| 31 | | | 38,476 | 3,000 | 20,713 | 19,908 |
| 32 | 33 | 1,185 | †3,000 | | | |
| 33 | | | 11,365 | 688 | 7,034 | 415 |
| 34 | | 2,940 | 44,018 | 8,860 | 7,000 | 8,217 |
| 69 | | 162 | 3,044 | | 1,295 | 300 |
| Totals | 33 | 4,461 | 146,360 | \$15,215 | \$40,987 | \$34,434 |

*No report. †Estimated by Division Engineer.

IRRIGATION DIVISION NO. 7

TABULATION OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORTS FOR 1940

| District No. | Number of Reservoirs in District | Area of High Water Line | Capacity in Acre Feet | Amount in Storage May 1st (Acre Feet) | Amount in Storage Nov. 1st (Acre Feet) |
|--------------|----------------------------------|-------------------------|-----------------------|---------------------------------------|--|
| *29 | 3 | ... | | | |
| 30 | 3 | 899 | †25,214 | 10,336 | 20,466 |
| 31 | †1 | 354 | | | |
| 33 | 1 | 36 | 576 | 320 | 0 |
| 34 | 7 | 980 | 16,134 | 15,109 | 207 |
| 69 | 2 | 672 | 21,810 | 2,350 | 0 |
| Totals | 17 | 2,941 | 63,734 | 28,115 | 20,673 |

*No report. †Includes 24,000 acre feet capacity of Electra Lake. ‡No water stored at Emerald Lake during 1940.

| District No. | First Day Water Was Used from Storage | Last Day Water Was Used from Storage | Number of Days Water Was Used | Average Daily Amount Used (Second Feet) | Number of Acre Ft. Used |
|--------------|---------------------------------------|--------------------------------------|-------------------------------|---|-------------------------|
| *29 | | | | | |
| 30 | July 14 | Sept. 10 | 15 | 15 | 450 |
| 33 | June 20 | July 15 | 11 | 11 | 241 |
| 34 | May 7 | Sept. 15 | 120 | 67 | 16,085 |
| 69 | June 24 | Aug. 21 | 46 | 84 | 87,640 |
| Totals | | | 120 | 102 | 24,416 |

*No report. ‡7,630 acre feet stored in Ground Hog Reservoir in Dist. 69 but used by Montezuma Valley Irrigation Co. in Dist. 34.

CROPS IRRIGATED

| District No. | Alfalfa | Natural Grasses | Cereals | Orchards | Market Gardens | Potatoes |
|--------------|---------|-----------------|---------|----------|----------------|----------|
| 30 | 260 | ... | 500 | 20 | ... | ... |
| 33 | 150 | ... | 52 | 8 | 16 | 8 |
| 34 | 6,244 | 2,847 | 5,942 | 616 | 105 | 509 |
| 69 | ... | ... | 70 | ... | ... | ... |
| Totals | 6,654 | 2,847 | 6,564 | 644 | 121 | 517 |

(COST, DOLLARS)

| District No. | Beans | Other Crops | Total Irrigated | Superintendence | Repairs | Improvements |
|--------------|-------|-------------|-----------------|-----------------|----------|--------------|
| 30 | ... | ... | 780 | \$ 240 | \$ 450 | ... |
| 33 | ... | ... | 234 | 58 | 191 | ... |
| 34 | 2,142 | 500 | 18,905 | 13,015 | 991 | ... |
| 69 | ... | ... | 1,600 | ... | 7,400 | 60 |
| Totals | 2,142 | 500 | 19,919 | \$14,913 | \$ 9,032 | \$ 102 |

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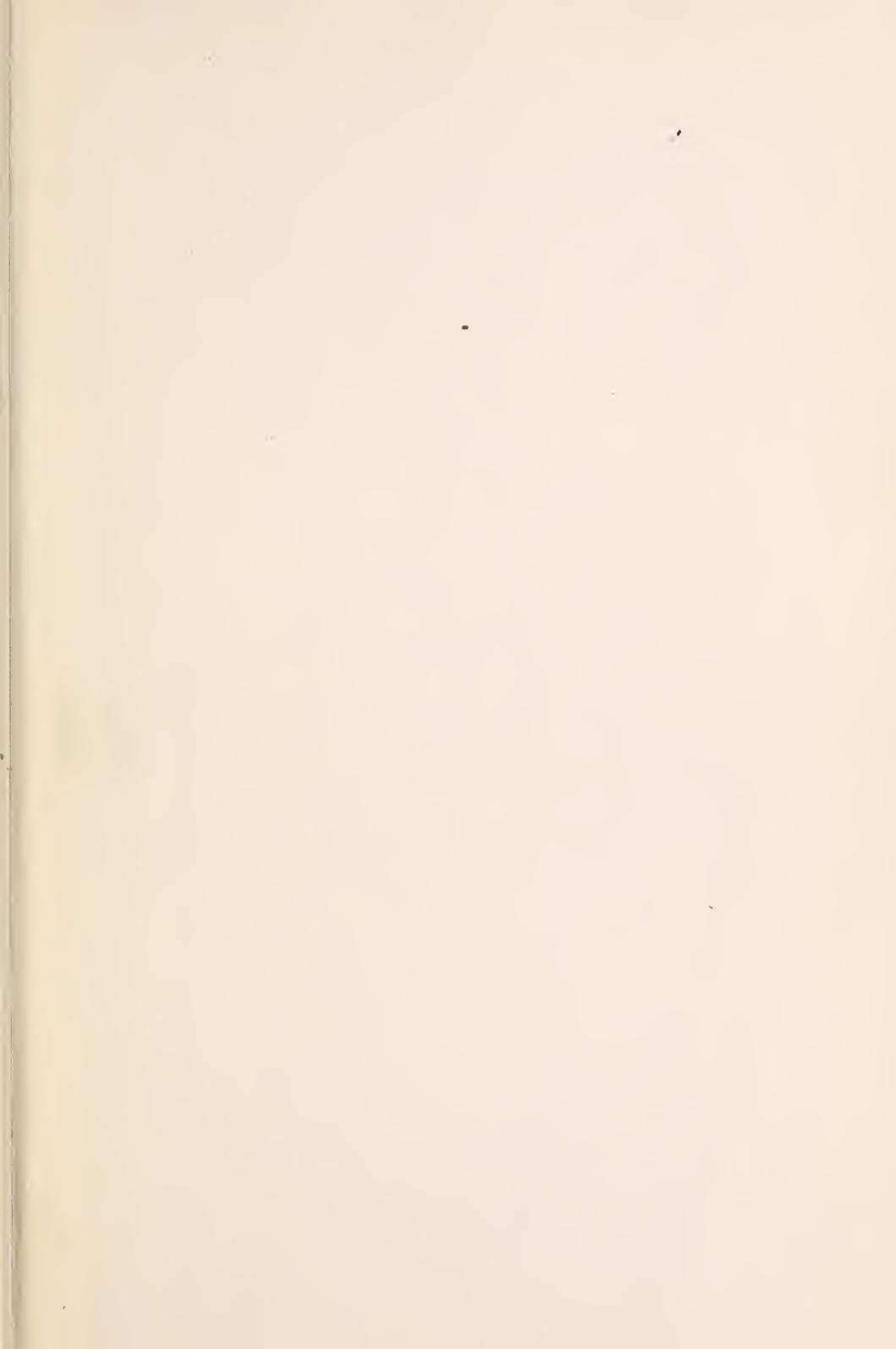
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